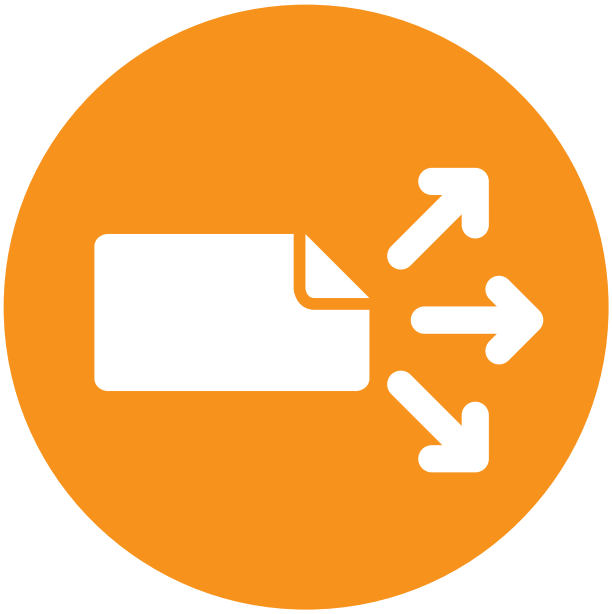

EASY COLLECT AND THE TRANSACTION MANAGER INTERFACE

clickandbuy

SAFE AND SIMPLE ONLINE PAYMENT

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THIS DOCUMENT

This document describes how to implement the ClickandBuy Easy Collect and Transaction Manager Interface with a merchant's website or application.

INTENDED AUDIENCE

This document is written for merchants and developers who want to configure and test their ClickandBuy-based applications before using them on production.

1 EASY COLLECT

ClickandBuy Easy Collect makes it possible for merchant's to take payment from a customer at a point in time rather than at a period of interaction with a ClickandBuy payment page.

The principle of Easy Collect is that a customer is redirected by the merchant to a ClickandBuy Easy Collect page once to confirm a payment authorisation for goods/services the merchant offers. A successful authorisation will return the customers ClickandBuy customer reference number to the merchant's system to evaluate and store in a back-end database. The merchant is then able to charge the customer as and when required using the Transaction Manager Interface – no further redirection of the customer away from the merchant's system to ClickandBuy is required to confirm payments.

This method of ClickandBuy integration is ideal for merchants utilising non-web applications or web based offers that require asynchronous workflows.

1.1. CONFIGURING YOUR ACCOUNT FOR EASY COLLECT

To utilise Easy Collect the Transaction manager Interface must first be activated against your merchant account by ClickandBuy.

1.1.1. CREATING YOUR EASY COLLECT ID

To allow customers to authorise Easy Collect for your merchant offer online you are required to host a script or application on a public web server to capture the Easy Collect authorisation response. The target URL of this script or application needs then to be set against a ClickandBuy Easy Collect Link in your merchant account Easy Collect menu.

To configure a ClickandBuy Easy Collect ID:

1. Go to **www.clickandbuy.com**
2. Log in with your merchant username and password
3. Navigate to "Easy Collect" within your configured website domain
4. Click the "Create" button on the right hand side of the page

You will be presented with the Easy Collect ID GUI.

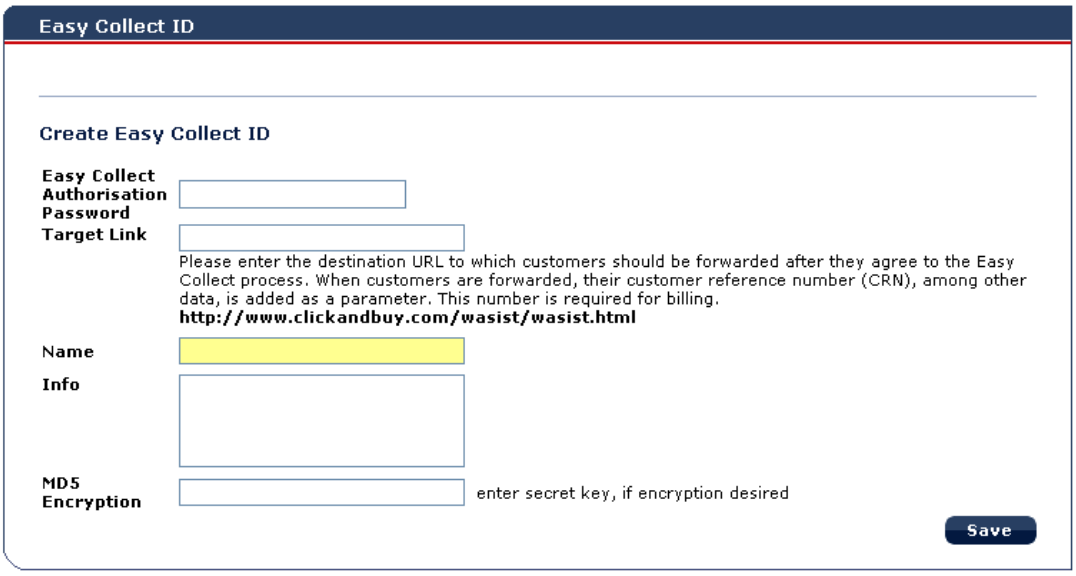
Easy Collect ID
Create Easy Collect ID
Easy Collect Authorisation Password
Target Link
Please enter the destination URL to which customers should be forwarded after they agree to the Easy Collect process. When customers are forwarded, their customer reference number (CRN), among other data, is added as a parameter. This number is required for billing.
http://www.clickandbuy.com/wasist/wasist.html
Name
Info
MD5 Encryption
enter secret key, if encryption desired
Save

Figure 1-a: Creating your Easy Collect ID

The following options are to be defined at this point.

Easy Collect Authorisation Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alpha-numeric password. You will only be prompted to set this value with your first Easy Collect ID configuration if a value is not already set for your account (see chapter 1.1.1.1).
Target Link	The Target URL of your Easy Collect script or application. When the customer confirms authorisation on the ClickandBuy pages we will return the customer and authorisation response to this defined URL.
Name	Set the default name of your offer to be displayed on the ClickandBuy Easy Collect pages
Info	Set a default content description to be displayed on the ClickandBuy Easy Collect pages
MD5 Encryption	Set an optional encryption key value to ensure communication with your script/ application is from ClickandBuy (see Chapter 1.2.1)

Table 1-a: Configurable Easy Collect Options

Choosing [Save] will create the new Easy Collect ID in your merchant account.

1.1.1.1. TRANSACTION MANAGER PASSWORD

The Transaction Manager Password is used in the execution of all Transaction Manager Interface methods. It is a separate password from your merchant account password used for login at **www.clickandbuy.com.**

You are prompted to set a (minimum) 6 character alphanumeric password when you create your first Easy Collect ID or access the Transaction Manager GUI directly for the first time. You can reset this password at anytime via "Transaction Manager -> Manage -> Change Password" in the left hand navigation of your merchant account; you will require the existing set value to do so.

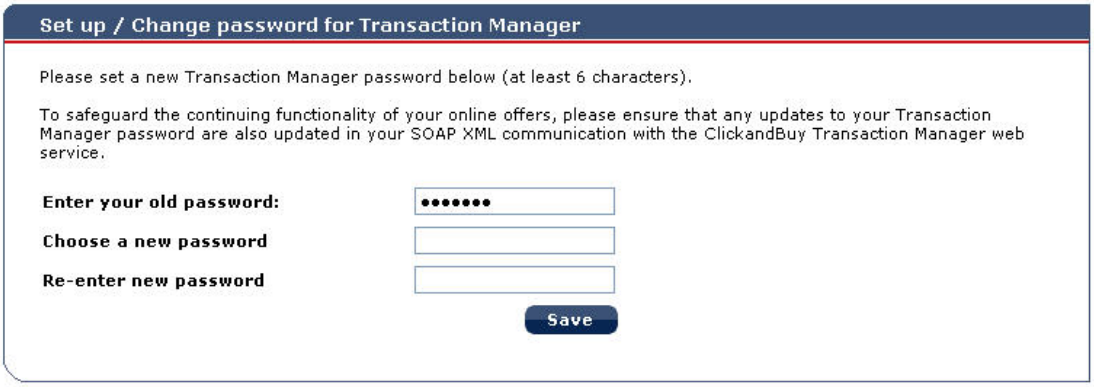
Set up / Change password for Transaction Manager
Please set a new Transaction Manager password below (at least 6 characters).
To safeguard the continuing functionality of your online offers, please ensure that any updates to your Transaction Manager password are also updated in your SOAP XML communication with the ClickandBuy Transaction Manager web service.
Enter your old password:
Choose a new password
Re-enter new password
Save

Figure 1-b: Resetting your Transaction Manager Password

NOTES:
When choosing to reset the value of the Transaction Manager Password in your merchant service area, please ensure that every script or config file in which it is referenced is updated also. Else all communication to ClickandBuy TMI methods will fail with a 41: BadPassword exception listed in the appendix of this document.

1.1.2. CONSTRUCTING YOUR CLICKANDBUY EASY COLLECT URL

To obtain the base URL of your Easy Collect link that you are required to redirect your customer to for authorisation; you can click the "Implement Authorisation page" button to the right of the page in your Easy Collect menu. This will launch a popup window detailing your Easy Collect URL.

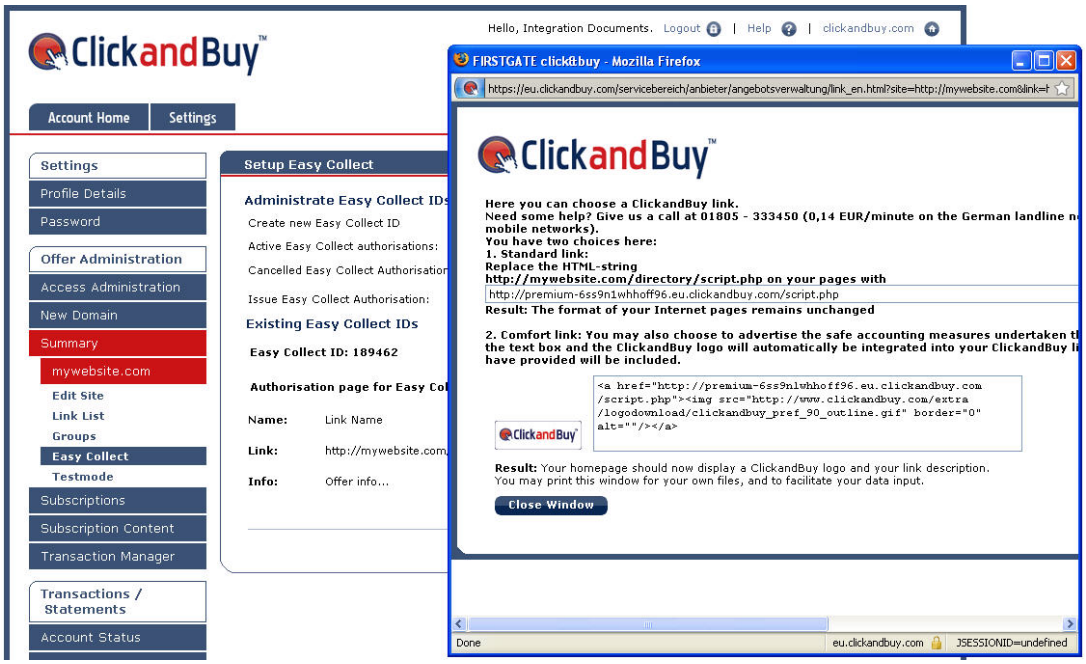

Figure 1-c: Obtain your Easy Collect URL

Communication with ClickandBuy for Easy Collect Authorisation is achieved by using HTTP method GET. The merchant can construct a query string of certain key ClickandBuy system parameters to define the messaging displayed to the customer and any unique parameters required from the merchant's own system and append these to the Easy Collect URL.

An example of this communication using a simple HTTP Web Form with the example merchant in our screenshots would be:

```
<form action=https://eu.clickandbuy.com/newauth/http://premium-6ss9n1wh-
hoff96.eu.clickandbuy.com/script.php method="GET">
…
…
</form>
```

The following are case sensitive dynamic parameters you ideally should include as part of the Easy Collect query string in the communication to ClickandBuy. This allows the locale of the page to be set dynamically:

NAME	DESCRIPTION
cb_content_name_utf	To dynamically populate the Name of your Easy Collect ID
cb_content_info_utf	To dynamically populate the Info of your Easy Collect ID
cb_billing_Nation	2-character Nation Code **NOTES:** There are differences to the ISO 3166 Specified Code2 (zB. ISO3166 GB corresponds to the value ClickandBuy UK). You will be required to make a mapping table of the Nation codes supported by ClickandBuy. A list of all possible nation values can be found in the appendix, chapter 4.
lang	The ClickandBuy system supports the following languages, for which the following values can be passed as parameters: cs (Czech) da (Danish) de (German) en (English) es (Spanish) fi (Finnish) fr (French) it (Italian) nl (Dutch) no (Norwegian) pl (Polish) pt (Portuguese) sv (Swedish) tr (Turkish **NOTES:** For unsupported languages the default language of English (en) will be applied. It is required that both cb_billing_Nation and lang are passed as a pair to utilize this feature.

Table 1-b: ClickandBuy Dynamic Transaction Parameters

An example ClickandBuy Easy Collect URL including all required dynamic parameters from the example merchant in our screenshots would be:

```
https://eu.clickandbuy.com/newauth/http://premium-6ss9n1whhoff96.
eu.clickandbuy.com/script.php?cb_content_name_utf=Mywebsite.
com+Authorisation&cb_content_info_utf=Authorisation+description&cb_bil-
ling_Nation=US&lang=en
```

The query string communicated by the merchant will be returned in its entirety as part of the ClickandBuy Easy Collect response to the merchant script to evaluate and store. The merchant can communicate their own system parameters as needed; these will be returned in full with the Easy Collect response.

Further unique parameters which may be passed to pre-populate the ClickandBuy account registration form for customers new to ClickandBuy are:

NAME	DESCRIPTION
Email	The Email address of the customer. This corresponds to the username of the customer in the ClickandBuy system
cb_billing_FirstName	User's first name
cb_billing_MiddleName	User's middle name (optional)
cb_billing_LastName	User's surname
Company	User's company (optional)
cb_billing_Street	Street Address
cb_billing_HouseNumber	User's house number (if not included in the Street detail)
cb_billing_Street2	Further address detail (optional)
cb_billing_ZIP	User's ZIP/Postal code
cb_billing_City	User's City/Town
cb_billing_Nation	2-character Nation Code
Phone	User's Telephone number
Gender	This is the gender of the user and is entered as "M" or "F".
DateOfBirth	User's Date of Birth which can be entered in format: DD/MM/YYYY DD.MM.YYY YYYYDDMM

Table 1-c: ClickandBuy Dynamic Registration Parameters

NOTES:
A list of prohibited parameter names is included in the appendix of this document.

1.1.3. MD5 ENCRYPTION

The MD5 encryption property on an Easy Collect ID is an optional feature that can be used to ensure the originality of the Easy Collect response communication from ClickandBuy.

This feature works in the following way:

1. An encryption key value of the merchant's choice is set against the Easy Collect ID.
2. The merchant Target Link must make an MD5 hash of the entire query string it receives (the merchants own HTTP GET parameters and ClickandBuy HTTP GET response parameters cusrefno and nationCode)
3. ClickandBuy will make the same hash and include the result as an additional HTTP GET parameter "cb_key" for you to capture and evaluate
4. The merchant must ensure their constructed hash value matches the value of parameter "cb_key" returned by ClickandBuy. A mismatch between the hashes indicates manipulated data.

```
// Merchant HTTP GET variables
$merchantParameter = $_GET['merchantParameter'];

// ClickandBuy HTTP GET variables
$cusrefno          = $_GET['cusrefno'];
$nationCode        = $_GET['nationCode'];

// ClickandBuy return hash
$cb_key            = $_GET['cb_key'];

// Create hash
$key               = "MD5SecretKey";
$parameters        = "merchantParameter=" . $merchantParameter . "&cusrefno="
                     . $cusrefno . "&nationCode=" . $nationCode;
$my_key            = md5($key . $parameters);

// Evaluation
if ($my_key !=$cb_key) {
            $errorworkflow;
            } else {
            $successWorkflow;
            }
```

Figure 1-d: Example PHP MD5 Hash creation and evaluation

1.2. SOLICIT AN EASY COLLECT AUTHORISATION ONLINE

When the customer is redirected to the merchant's Easy Collect URL they are presented with our customer authorisation workflow. The Easy Collect URL enables both existing ClickandBuy customers to log-in and confirm their authorisation and new customers to register an account with ClickandBuy and confirm their authorisation in real-time.

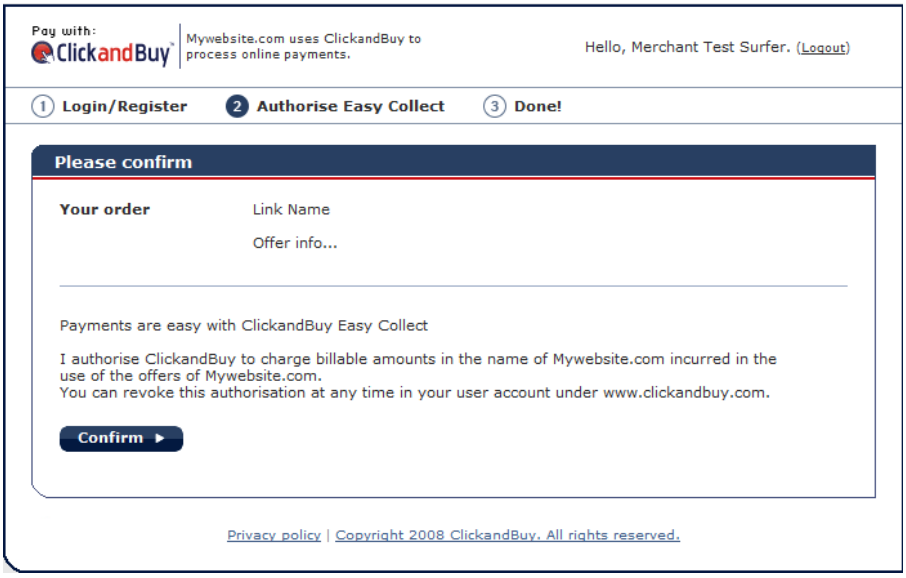
Pay with:
ClickandBuy
Mywebsite.com uses ClickandBuy to process online payments.
Hello, Merchant Test Surfer. (Logout)
1 Login/Register
2 Authorise Easy Collect
3 Done!
Please confirm
Your order
Link Name
Offer info...
Payments are easy with ClickandBuy Easy Collect
I authorise ClickandBuy to charge billable amounts in the name of Mywebsite.com incurred in the use of the offers of Mywebsite.com.
You can revoke this authorisation at any time in your user account under www.clickandbuy.com.
Confirm
Privacy policy | Copyright 2008 ClickandBuy. All rights reserved.

Figure 1-e: Customer Easy Collect Authorisation

When the customer chooses to Confirm, ClickandBuy will redirect the customer to the merchants Easy Collect Target Link. This will return the ClickandBuy response data to the merchant system as a communication via HTTP GET for the merchant to evaluate and store.

The following values must be confirmed as returned by ClickandBuy to the merchant's system and recorded against the customer profile in their back-end database:

HTTP GET PARAMETER	DESCRIPTION
cusrefno	ClickandBuy User-ID
nationCode	Registered nationality of the ClickandBuy customer
cb_key	MD5 hash of the ClickandBuy response. Used to verify the originality of the communication is from ClickandBuy *Only returned if a key value is set for MD5 Encryption

Table 1-d: ClickandBuy Easy Collect Response

NOTES:
For an overview of active and cancelled customer Easy Collect authorisations, please refer to Chapter 3.4.

For a graphical illustration of the online Easy Collect authorisation workflow please study the following diagram.

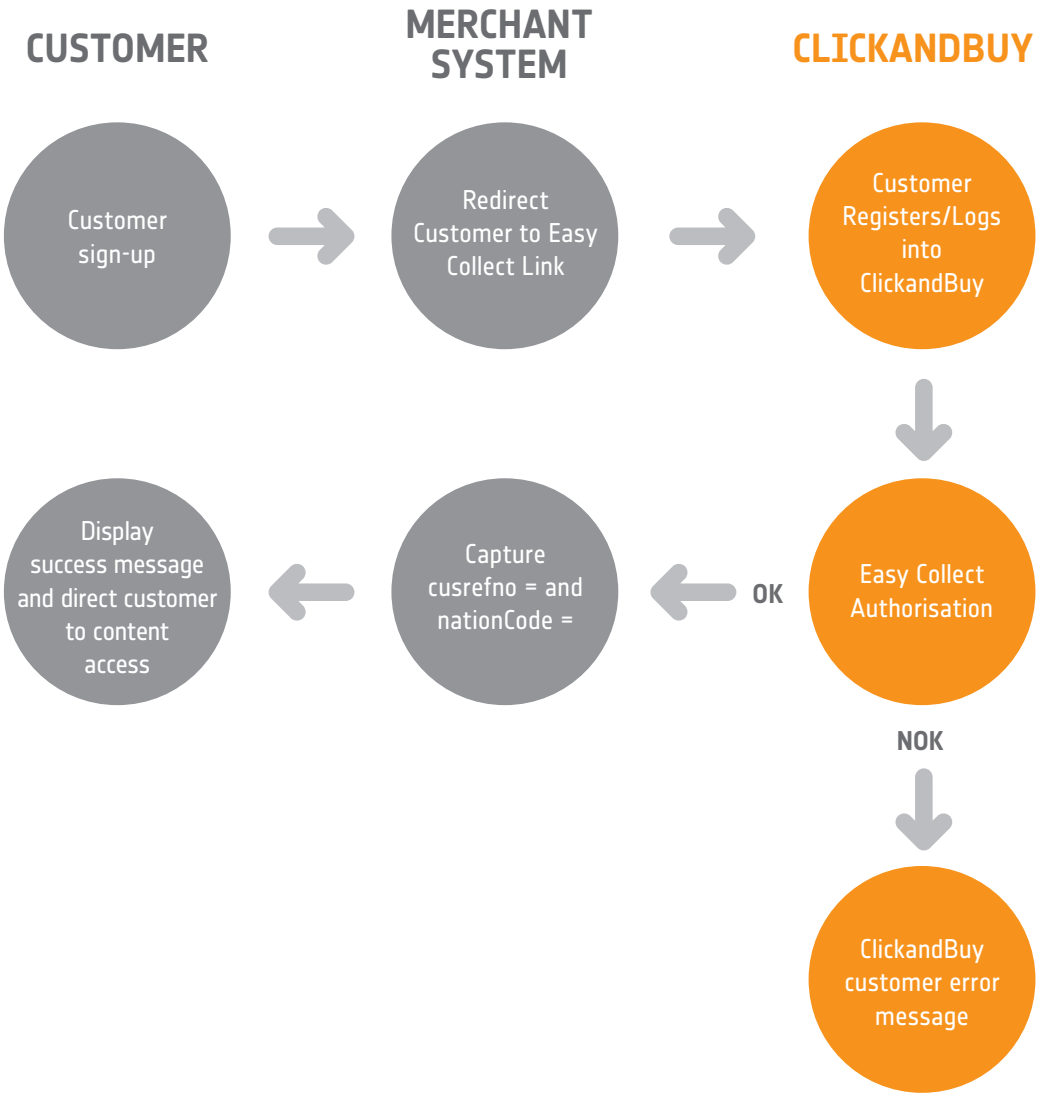

Figure 1-f: Customer Easy Collect Authorisation workflow

It is important to note that an Easy Collect authorisation is not a purchase by the customer. A customer transaction must be completed via the Transaction Manager Interface once authorisation is successfully completed.

NOTES:
The user will receive a confirmation email from ClickandBuy following their acceptance of Easy Collect authorisation.

1.3. SOLICIT AN EASY COLLECT AUTHORISATION OFFLINE

A merchant has the possibility to activate an Easy Collect authorisation on behalf of a customer who holds a previously registered ClickandBuy account via the Easy Collect menu in their ClickandBuy merchant account.

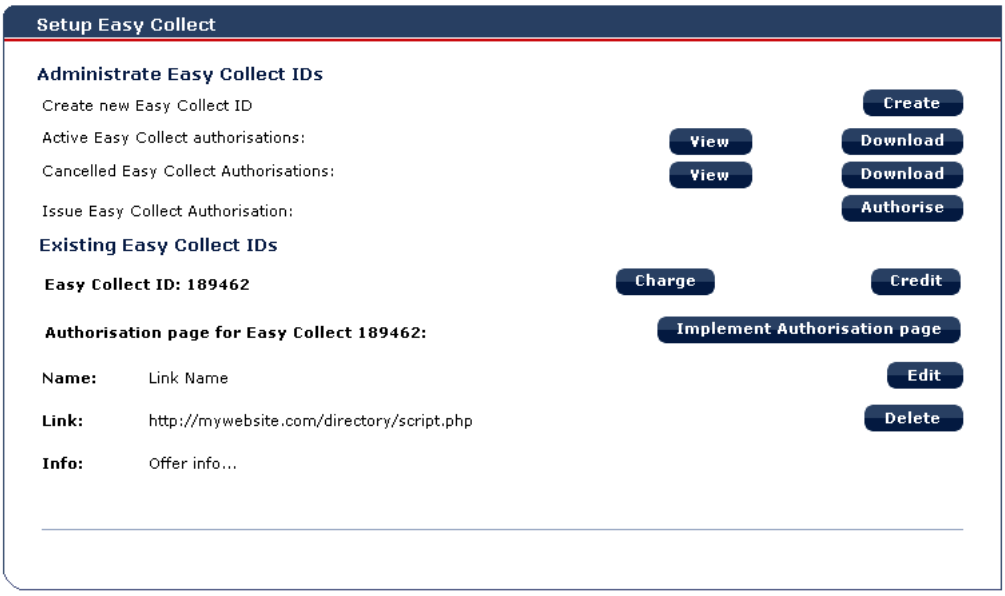

Figure 1-g: Merchant Service area Easy Collect menu Options

By clicking the "Authorise" button to the right of the page displayed in Figure 1-g a popup window will launch presenting the merchant the Issue Easy Collect Authorisation GUI.

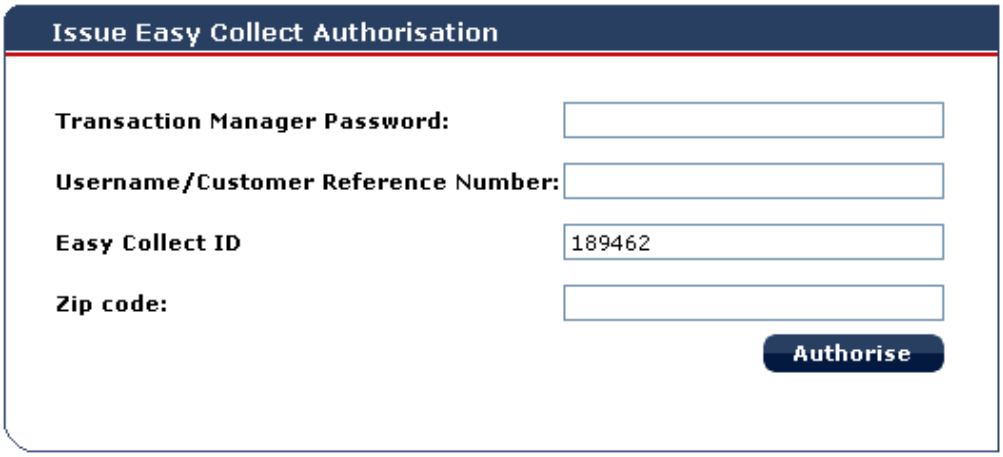

Figure 1-h: Issue Easy Collect Authorisation GUI

The following information is required to solicit an offline Easy Collect Authorisation.

Transaction Manager Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alphanumeric password. See chapter 1.1.1.1. for details on how to set and obtain this value.
Username/Customer Reference Number.	Enter the unique credentials of the customer you will authorise.
Easy Collect ID.	If not prefilled, enter the Easy Collect ID number the authorisation should be activated for.
Zip code.	The customer will be required share the ZIP/postal code registered to their ClickandBuy account for authorisation to be activated.

Table 1-e: Offline Authorisation required fields.

After successful authorisation, you will receive the following confirmation message and will be able to debit the customer via the Transaction manager Interface.

Issue Easy Collect authorisation
The Easy Collect authorisation was successfully issued.
The customer reference number is 127375379
Please make a note of this number, as it will be needed for billing the customer.
Issue further Easy Collect authorisations
Close Window

Figure 1-i: Successful offline Easy Collect authorisation

NOTES:
An offline Easy Collect authorisation will not store the customers details in the merchants own database. A reconciliation will be required if the data needs to be stored in the merchant database as well as the ClickandBuy system.

1.4. CANCELLATION OF EASY COLLECT AUTHORISATION

The customer can revoke their Easy Collect authorisation by logging into their account at **www.clickandbuy.com**.

After a customer has cancelled the Easy Collect authorisation it remains active against the merchant for a grace period of 7 days so the merchant has the opportunity to collect any outstanding monies owed.

NOTES:
The merchant will receive a confirmation email from ClickandBuy following a cancellation of an Easy Collect authorisation by the customer. This information is also available as XML via the ClickandBuy Event Messaging Service.

2 TRANSACTION MANAGER INTERFACE

The Transaction Manager Interface is an XML Web service. In order to communicate with the Transaction Manager Interface, you will need to use the standard Web protocol SOAP (Simple Object Access Protocol).

The Transaction Manager Interface of ClickandBuy requires a SOAP 1.2 interface (XML scheme definition: Part 2-20010502).

2.1. TRANSACTION MANAGER INTERFACE WSDL

The exact description of the Transaction Manager Interface is contained in the WSDL (Web Services Description Language).

You can obtain the original WSDL from the following location:

```
http://wsdl.[system-id].clickandbuy.com/TMI/1.4/

TransactionManagerbinding.wsdl
TransactionManager.wsdl
TransactionManager.xsd
```

When using ASP .Net:

```
http://wsdl.[system-id].clickandbuy.com/TMI/1.4/
TransactionManager_dotNET.wsdl
```

“system-id” in the URL is a 2-letter ClickandBuy system code; “eu” for all the European countries, “us” for the United States, “uk” for the United Kingdom, etc. This is the same 2-letter system code as is included in the ClickandBuy Easy Collect URL.

In order to send a request, the structure of the WSDL must be adhered. You can use all characters according to the UTF-8 encoding for defining parameters or text fields.

2.1. INTERFACES AND THEIR METHODS

The Transaction Manager uses the following interfaces:

- Payment
- Status
- Ecommerce

Table 2-a provides a brief overview of the methods available for each interface. More detailed information regarding each method is included in the following chapters of this document.

A successfully executed method is typically processed within 5 seconds; the maximum response time from the TMI before a timeout occurs is 15 seconds for Payment and Status methods and 60 seconds for the Ecommerce methods.

INTERFACE	METHOD	DESCRIPTION
Payment	getEasyCollectSingle	Issue an individual Debit, Credit, Credit via Email or Cancel request
	placeEasyCollectMulti	Simultaneously transmit multiple Debit, Credit and Cancel requests. The transactions are batch processed (max 1,000 requests per job).
	partialEasyCollectBegin	Start a Partial Easy Collect Job
	partialEasyCollectAddSingleItem	Add a Single Item (transaction) to a Partial Easy Collect Job
	partialEasyCollectAddItems	Add multiple Items (transactions) to a Partial Easy Collect Job
	partialEasyCollectFinish	Close and start processing a Partial Easy Collect Job
Status	isBDRIDcommitted	Using this method you can check if a transaction (BDRID – Billing Data Record ID) was committed on the ClickandBuy system. This method returns a real-time Boolean response.
	isExternalBDRIDcommitted	Using this method you can check if a transaction (externalBDRID – merchants own transaction ID) was committed on the ClickandBuy system. This method returns a real-time Boolean response.
	getBDRStatusByBDRID	Using this method you can query the status (Payment status and BDR details) of a transaction previously processed by referencing the ClickandBuy BDRID.
	getBDRStatusByExternalBDRID	Using this method you can query the status (Payment status and BDR details) of a transaction previously processed by referencing the merchant externalBDRID.

INTERFACE	METHOD	DESCRIPTION
	getCustomerTransactionStatus	Retrieve data of an individual customer's transactions within a specified time-frame.
	getTransactionStatusByJobID	Query the status of a batch processed transaction using the Job ID in combination with an action ID (batch Item ID)
	getTransactionStatusByExternalBDRID	Query the status of a batch processed transaction using the externalBDRID
	getCustomerStatusByCRN	Query the status of a particular customer using their Customer Reference Number.
	getCustomerStatusByMSISDN	Using the MSISDN (customer's mobile telephone number) you can query detailed information about a customer's ClickandBuy account
	getInterfaceStatus	Query the status of the Transaction Manager Interface (on or off).
	getJobStatusByJobID	Query the status of a job and its individual transactions using its Job ID.
	getJobStatusByExtJobID	Query the status of a job using its external Job ID
	getJobItemsStatusByJobID	Query the status of a job and its individual transactions using its Job ID.
	getJobItemsStatusByExtJobID	Query the status of a job and its individual transactions using its external Job ID.
ECommerce	rcCreateReservation	Create an individual reservation for the full purchase price.
	rcCaptureReservation	Capture an individual reservation for the full or partial amount of the reserved purchase price.
	rcCancelReservation	Cancel an individual reservation for the full amount.
	rcStatusReservation	Query the status of a reservation using the Reservation/ BDRID

Table 2-a: Overview of TMI methods

In the following chapters each method is outlined in more detail. The explanation of the corresponding complex types can be found in Chapter 4.1.

2.2. PAYMENT TRANSACTIONS

The Payment interface allows the following transaction types to be processed by the merchant:

- DEBIT
- CREDIT
- CANCEL

When processing customer payments via the Transaction Manager following successful Easy Collect authorisation by the customer it is important the following flow is considered to ensure the customer is in good standing before completing a transaction and providing the goods/access to the customer. This can be achieved by executing Status method getCustomerStatusByCRN (see chapter 2.4.3. for further details).

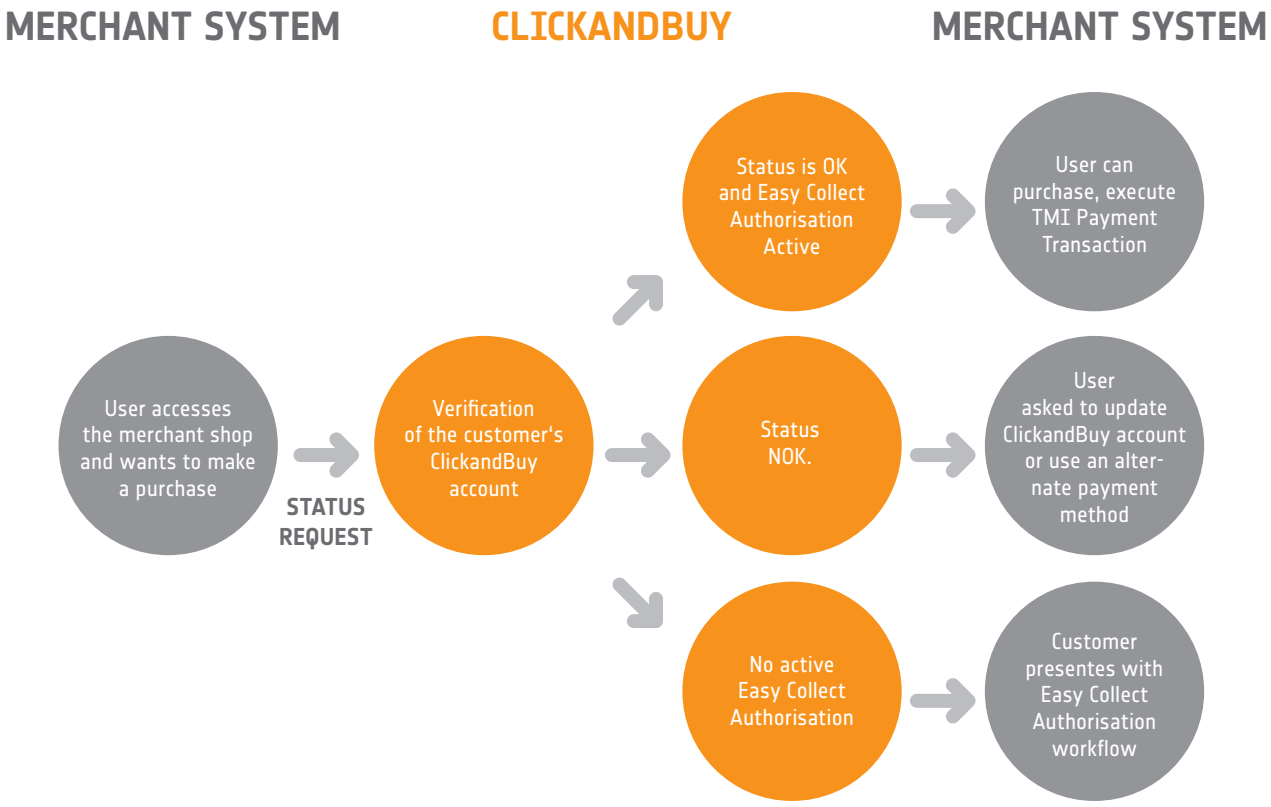
MERCHANT SYSTEM
CLICKANDBUY
MERCHANT SYSTEM
User accesses the merchant shop and wants to make a purchase
STATUS REQUEST
Verification of the customer's ClickandBuy account
Status is OK and Easy Collect Authorisation Active
Status NOK.
No active Easy Collect Authorisation
User can purchase, execute TMI Payment Transaction
User asked to update ClickandBuy account or use an alternate payment method
Customer presentes with Easy Collect Authorisation workflow

Figure 2-a: Optimum Easy Collect customer purchase workflow

NOTES:
An active Easy Collect authorisation is required to process a successful DEBIT. Both CREDIT and CANCEL can be processed without a customer authorisation.

2.2.1. PROCESSING SINGLE TRANSACTIONS

The method getEasyCollectSingle660 allows a merchant to process individual Debit or Credit transactions and also to cancel a previously processed transaction.

getEasyCollectSingle660

	NAME	TYPE
input	sRequest	TransactionManager.Payment.SingleRequest660
output		TransactionManager.Payment.PaymentResponse660
exception		TransactionManager.Payment.PaymentException

Table 2-b:Method for Interface: TransactionManager.Payment – getEasyCollectSingle660

2.2.2. PROCESSING BATCH TRANSACTIONS

The EasyCollectMulti and PartialEasyCollect methods can be used to process multiple transactions at the same time. For each of these methods the transactions are linked together in jobs. Each item within the job is processed sequentially and the maximum number of items cannot exceed 1000 for an individual job. The response or processing time of a job is dependant on the number of payment transactions contained within the request, each requiring typically 5 seconds.

2.2.2.1. placeEasyCollectMulti

The placeEasyCollectMulti is a simple standalone method. It can be used to send a list of Transactions in a single method call. Each transaction is an "Item" in the sequence "PaymentReqItems".

placeEasyCollectMulti660

	NAME	TYPE
input	sRequest	TransactionManager.Payment.MultiRequest660
output		TransactionManager.Payment.placeEasyCollectMultiResponse
exception		TransactionManager.Payment.PaymentException

Table 2-c: Method for Interface: TransactionManager.Payment – placeEasyCollectMulti660

2.2.2.2. PARTIALEASYCOLLECT

The PartialEasyCollect methods are a special set of methods that need to be used in partnership with each other.

Using the PartialEasyCollect methods makes it possible to group a number of transactions in one job without having to include all transactions (Items) in a single method call. You can add the items for the job individually in separate method calls.

When using the PartialEasyCollect methods you must first call the method partialEasyCollectBegin660. This method will return a unique ClickandBuy system jobID that will be referenced with every transaction (Item) subsequently added to the job.

partialEasyCollectBegin

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String .	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1 for details
	extJobID	Long	ISO 8859-1, max 10 digits	Merchants own system ID for the job (optional)
Output		Long		ClickandBuy JobID
Exception		TransactionManager.Payment.PaymentException		

Table 2-c: Method for Interface: TransactionManager.Payment – partialEasyCollectBegin

To add an individual Item (transaction) to a created job list you may use the method partialEasyCollectAddSingleItem660.

partialEasyCollectAddSingleItem660

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	mJobID	Long	Automatically generated by the system, max 8 digits	ClickandBuy JobID returned by method partialEasyCollectBegin.
	item	TransactionManager.Payment.PaymentRequest660		
Output		Long	Automatically generated by the system, max 8 digits	ClickandBuy JobID
Exception		TransactionManager.Payment.PaymentException		

Table 2-d: Method for Interface: TransactionManager.Payment – partialEasyCollectAddSingleItem660

To add multiple Items (transactions) to a created job list you may use the method partialEasyCollectAddItems660.

partialEasyCollectAddItems660

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	mJobID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy JobID returned by method partialEasyCollectBegin.
	mItem	TransactionManager.Payment.PaymentReqItems660		
Output		Long	Automatically generated by the system, max 8 digits	ClickandBuy JobID
Exception		TransactionManager.Payment.PaymentException		

Table 2-e: Method for Interface: TransactionManager.Payment – partialEasyCollectAddItems660

Once all Items (transactions) have been added to the job, the method partialEasyCollectFinish must be called. This will close the job (no new Items may be added after this method is called) and the Transaction Manager will begin processing the batch.

partialEasyCollectFinish

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	mJobID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy JobID returned by method partialEasyCollectBegin.
Output		Long	Automatically generated by the system, max 8 digits	ClickandBuy JobID
Exception		TransactionManager.Payment.PaymentException		

Table 2-f: Method for Interface: TransactionManager.Payment – partialEasyCollectFinish

2.3. STATUS QUERIES

The Status Query methods provide a comprehensive reporting tool that delivers exact information about individual payment transactions, the status of a customer and/or information about the status of batch processing.

Using these methods it is possible to submit queries to obtain information such as:

- If a transaction is successfully committed
- The current status of a customer
- The current status of a transaction
- The current status of a job
- Details of a customers purchase history within a specified time period
- The status of individual transactions within a batch job

2.3.1. TRANSACTION GUARANTEE

The following methods enable you to query whether a transaction (BDR) was successfully created on the ClickandBuy system in real-time.

The methods are typically used as a second transaction handshake (or Second Confirmation) by the merchant when using the ClickandBuy Transaction System to process payment. They ensure the transaction is committed on the ClickandBuy system before the merchant records the customer purchase as successful in a database. This guarantees no discrepancies between the merchant's transaction records and ClickandBuy in case of timeouts.

NOTES:
While these methods guarantee the transaction was successfully created, they by no means guarantee the security of a payment.

isBDRIDCommitted

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slaveMerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchants.
	BDRID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
Output		ClickandBuy.Transaction.BDRProcessingState		
Exception		TransactionManager.Status.StatusException		

Table 2-g: Method for Interface: TransactionManager.Status – isBDRIDCommitted

isExternalBDRIDCommitted

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slaveMer-chantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your sub-merchants. The default value 0 should be passed if you have no sub-merchants.
	external-BDRID	String	ISO 8859-1, maximum 64 characters	Merchants Transaction ID
Output		ClickandBuy.Transaction.BDRProcessingState		
Exception		TransactionManager.Status.StatusException		

Table 2-h: Method for Interface: TransactionManager.Status – isexternalBDRIDCommitted

2.3.2. STATUS OF AN INDIVIDUAL TRANSACTION

The following methods enable you to query the status of a completed transaction by referencing the ClickandBuy BDRID or the merchants own externalBDRID in near-time.

NOTES:
Only when a transaction is successfully processed by the ClickandBuy accounting server will the full detail be available as an output of these methods. This can take as long as 30 minutes from the time the transaction was successfully committed.

getBDRStatusByBDRID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slaveMer-chantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	BDRID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
Output		ClickandBuy.Transaction.BDRStatus		
Exception		TransactionManager.Status.StatusException		

Table 2-i: Method for Interface: TransactionManager.Status – getBDRStatusByBDRID

getBDRStatusByExternalBDRID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-MerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	external-BDRID	String	ISO 8859-1, maximum 64 characters	Merchants Transaction ID
Output		ClickandBuy.Transaction.BDRStatus		
Exception		TransactionManager.Status.StatusException		

Table 2-j: Method for Interface: TransactionManager.Status – getBDRStatusByExternalBDRID

getCustomerTransactionStatus

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-MerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	crn	String	Automatically generated by the system, in range long: 0, 12678967543233	Customer Reference Number. This is a unique identifier for a ClickandBuy customer.
	startDate-Time	String	YYYYMMDDHH24MISS (UTC)	Date and time stating the beginning of the specified period.
	endDateTime	String	YYYYMMDDHH24MISS (UTC)	Date and time stating the end of the specified period.
Output		ClickandBuy.Transaction.BDRStatusList		
Exception		TransactionManager.Status.StatusException		

Table 2-k: Method for Interface: TransactionManager.Status – getCustomerTransactionStatus

getTransactionStatusByJobID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	jobID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	actionID	Long	5 digits, minimum 00001, maximum 10000	The Action ID identifies the particular record within a job.
Output		ClickandBuy.Transaction.TransStatusResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-j: Method for Interface: TransactionManager.Status – getTransactionStatusByJobID

NOTES:
This method can only be used to retrieve the status of a batch processed transaction.

getEmailCreditStatus

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-MerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	transactionID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The Action ID identifies the particular record within a job.
	external BDRID	String	ISO 8859-1, maximum 64 characters	Merchants Transaction ID
Output		TransactionManager.Status.getEmailCreditStatusResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-k: Method for Interface: TransactionManager.Status – getEmailCreditStatus

2.3.3. CUSTOMER STATUS QUERIES

The following queries can be used to ascertain the suitability of the ClickandBuy customer account for Easy Collect billing.

getCustomerStatusByCRN

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-MerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	crn	Long	Automatically generated by the system, in range long: 0, 12678967543233	Customer Reference Number. This is a unique identifier for a ClickandBuy customer.
	easyCollectID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is the Easy Collect ID automatically generated by the System for each Easy Collect link created by the merchant.
Output		ClickandBuy.Transaction.CustomerStatus		
Exception		TransactionManager.Status.StatusException		

Tabelle 2-k: TransactionManager.Status – getCustomerStatusByCRN

getCustomerStatusByMSISDN

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-MerchantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no sub-merchants.
	MSISDN	Long	Phone number registered by the customer	Mobile telephone number registered to a ClickandBuy customer account
	easyCollectID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is the Easy Collect ID automatically generated by the System for each Easy Collect link created by the merchant.
Output		ClickandBuy.Transaction.CustomerStatus		
Exception		TransactionManager.Status.StatusException		

Table 2-I: Method for Interface: TransactionManager.Status – getCustomerStatusByMSISDN

NOTES:
The Mobile Subscriber Integrated Services Digital Network Number (MSISDN) is the selectable telephone number, that the caller uses to reach a mobile radio participant.

2.3.4. JOB STATUS QUERIES

The following methods enable you to query the status of a completed batch job and items processed within in near-time.

getJobStatusByJobID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	jobID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy JobID returned by method partialEasyCollectBegin or placeEasyCollect-Multi.
Output		ClickandBuy.Transaction.JobStatusResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-m: Method for Interface: TransactionManager.Status – getJobStatusByJobID

getJobStatusByExtJobID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1 for details
	extJobID	Long	ISO 8859-1, maximum 10 digits	Merchants own unique JobID
Output		ClickAndBuy.Transaction.JobDetailResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-n: Method for Interface: TransactionManager.Status – getJobStatusByExtJobID

getJobItemsStatusByJobID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	jobID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy JobID returned by method partialEasyCollectBegin or placeEasyCollectMulti.
Output		ClickandBuy.Transaction.JobStatusResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-o: Method for Interface: TransactionManager.Status – getJobItemsStatusByJobID

getJobItemsStatusByExtJobID

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	extJobID	Long	ISO 8859-1, maximum 10 digits	Merchants own unique JobID
Output		ClickandBuy.Transaction.JobDetailResponse		
Exception		TransactionManager.Status.StatusException		

Table 2-p: Method for Interface: TransactionManager.Status – getJobItemsStatusByExtJobID

2.3.5. TRANSACTION MANAGER INTERFACE STATUS

With this method you can check the technical availability of the interface (on or off).

getInterfaceStatus

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPassword	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
Output		Boolean		
Exception		TransactionManager.Status.StatusException		

Table 2-q: Method for Interface: TransactionManager.Status – getInterfaceStatus

2.3.6. CANCELLING CUSTOMER SUBSCRIPTIONS

If a merchant utilizes ClickandBuy Subscriptions, cancellation of a subscription can also be performed using the Transaction Manager Interface.

cancelSubscription

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPass-word	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
	slave-Merchant-ID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your sub merchants. The default value 0 should be passed if you have no submerchants.
	subscrip-tionID	Long	In range long: 0, 12678967543233	Unique ClickandBuy subscriber ID.
	when	string	ISO 8859-1	see below
Output	TransactionManager.Subscription.cancelSubscriptionResponse			
Exception	TransactionManager.Subscription.SubscriptionException			

Table 2-r: Method for Interface: TransactionManager.Subscription – cancelSubscription

when

VALUE	DESCRIPTION
ToEndOfSubsCan-celPeriod	The subscription will be cancelled and ended at the next possible date allowed for a predefined period of cancellation.
ToEndOfCurrent-PaymentInterval	The subscription will be cancelled and ended at the next due payment interval.
Now	The subscription will instantly be terminated.

Table 2-r: Method for Interface: TransactionManager.Subscription – cancelSubscription

NOTES:
For more information about ClickandBuy Subscriptions please request a copy of the Subscriptions manual.

2.4. ECOMMERCE TRANSACTIONS (RESERVE / CAPTURE)

To utilise the Reserve/Capture functionality it must first be activated against your merchant account by ClickandBuy.

When enabled, a successfully completed transaction creates a reservation against the ClickandBuy customer for the full purchase price (the agreed price of the shopping cart) and at a later point in time it can be captured from the customer.

This feature is ideal for retail merchants required to first check the availability of goods and collect money from the customer when ready for shipping.

For the customer, this process behaves in exactly the same manner as a standard Easy Collect or Transaction purchase.

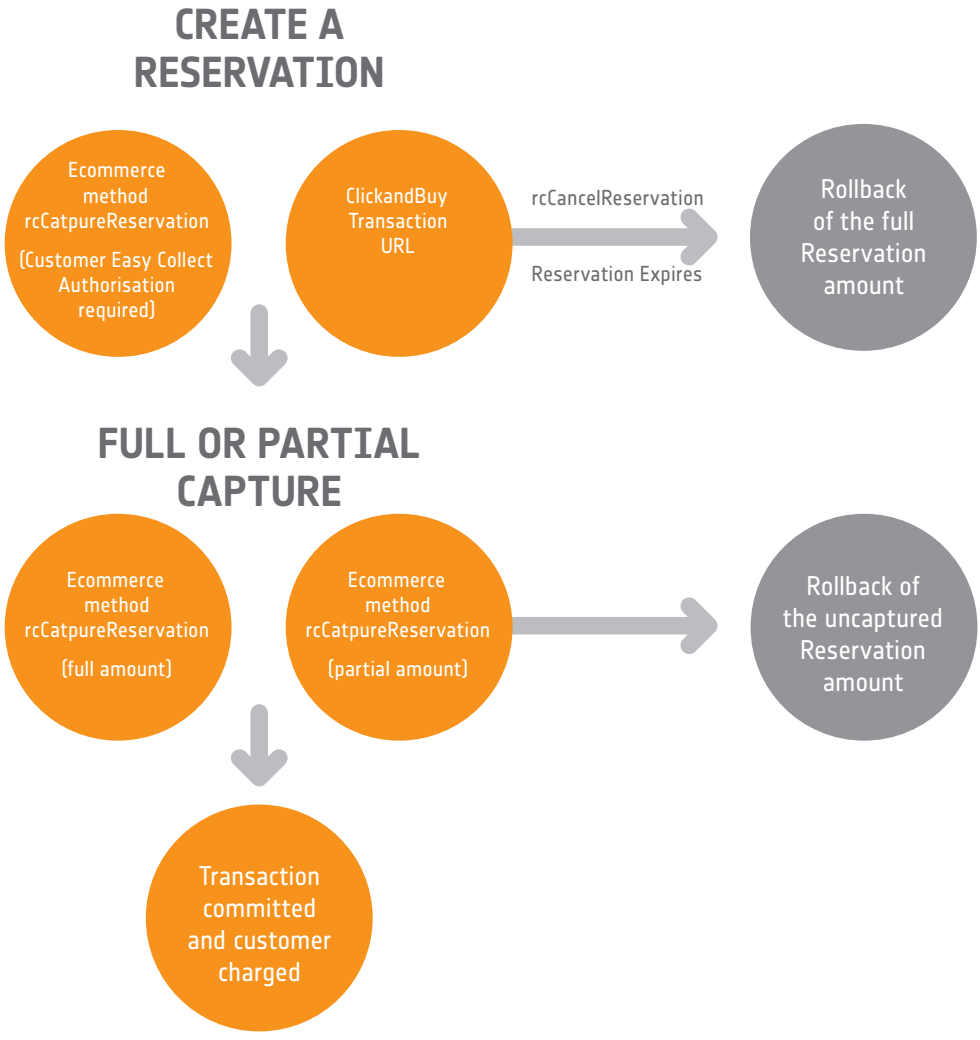

Figure 2-b: Ecommerce Reserve/Capture workflow

2.4.1. CREATING A RESERVATION

A Reservation can be processed using ECommerce method rcCreateReservation and via the ClickandBuy Transaction System.

The method rcCreateReservation allows a merchant to process individual reservation. When assessing the customer's suitability for purchase please consider the same workflow as when making a straight Debit via the Transaction Manager.

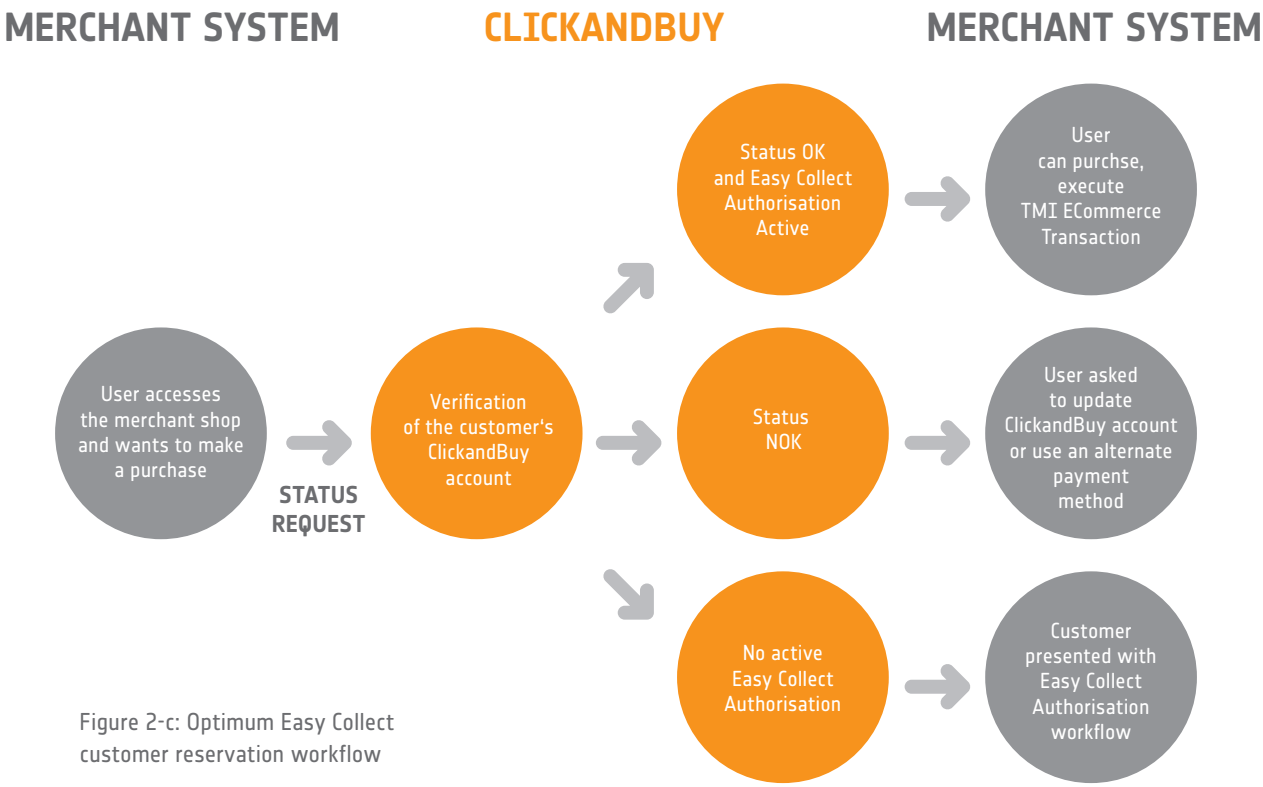
MERCHANT SYSTEM
CLICKANDBUY
MERCHANT SYSTEM
User accesses the merchant shop and wants to make a purchase
STATUS REQUEST
Verification of the customer's ClickandBuy account
Status OK and Easy Collect Authorisation Active
Status NOK
No active Easy Collect Authorisation
User can purchse, execute TMI ECommerce Transaction
User asked to update ClickandBuy account or use an alternate payment method
Customer presented with Easy Collect Authorisation workflow

Figure 2-c: Optimum Easy Collect customer reservation workflow

rcCreateReservation

	NAME	TYPE
input	sRequest	TransactionManager.Ecommerce.SingleRequest
output		TransactionManager.Ecommerce.Reservation
exception		TransactionManager.Payment.PaymentException

Table 2-s: Method for Interface: TransactionManager.Ecommerce – rcCreateReservation

NOTES:
A successfully created Reservation is not a guarantee a successful capture will always be possible.
Please ensure the capture is processed without error before fulfilling the customers purchase.

2.4.2. CAPTURING A RESERVATION

The method rcCaptureReservation is used to capture individual reservations that have not expired or cancelled. The merchant has the possibility to capture the full amount or a partial amount of the original reservation. In the case of a partial capture the remaining value of the reservation will be cancelled and released against the customer's account or payment method. The merchant may not process a capture of greater value or alternate currency to that of the original reservation.

NOTES:
A Capture cannot be processed in the first 90 seconds after the original Reservation.
However, once a reservation is placed it is advisable to capture the reservation as soon as possible because the longer a reservation exists without being captured the higher the probability that the credit status or payment

rcCaptureReservation

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPass-word	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is re-quired for all web service calls. See chapter 1.1.1.1. for details
	slaveMer-chantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchants.
	BDRID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
	amount	unsig-nedInt	The price to be captured in cents/pence.	The reserved amount to be captured. This value cannot exceed the value of the original reservation.
	currency	String	ISO4217, 3 characters	Indicates the currency of the reserved amount to be captured. This value must match the value of the original reservation.
	infoText	String	250 characters; ISO 8859-1	Additional messaging displayed on the customer invoicing.
Output		Boolean	true, false, 1 or 0	
Exception		TransactionManager.Payments.PaymentException		

Table 2-t: Method for Interface: TransactionManager.Ecommerce – rcCaptureReservation

2.4.3. CANCELLING A RESERVATION

The method rcCancelReservation can be used to release the funds held as a reservation against a ClickandBuy customer.

rcCancelReservation

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPass-word	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details.
	slaveMer-chantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchan-ts.
	BDRID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
	infoText	String	250 characters; ISO 8859-1	Additional messaging displayed on the customer invoicing.
Output		Boolean	true, false, 1 or 0	
Exception		TransactionManager.Payments.PaymentException		

Table 2-u: Method for Interface: TransactionManager.Ecommerce – rcCancelReservation

NOTES:
If you do not capture the reservation or cancel the amount within 30 days, ClickandBuy will automatically cancel the reserved amount.

2.4.4. RESERVATION STATUSES

Monitoring your customer reservations can be achieved via a number of methods.

- **System Email**
  ClickandBuy can activate an email notification for the "Reserve/Capture" functionality. For each "Reserve/Capture" the merchant will receive an email. This email will be sent to the email address registered to the merchant account.

- **Transactions / Statements**
  All active reservations can be viewed from the "Reservations" menu in the "Transactions / Statements" section of a ClickandBuy merchant account.

- **Event Messaging service (EMS)**
  EMS (Event Messaging Service of ClickandBuy) is a comprehensive and extensive reporting module that provides transaction events in XML format. If you require more information about EMS, please request the "Event Messaging Service" manual.

- **TMI Status call**
  Utilizing the method rcStatusReservation allows you to query the current status of an individual reservation

rcStatusReservation

	NAME	TYPE	FORMAT	DESCRIPTION
Input	sellerID	Long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
	tmPass-word	String	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is re-quired for all web service calls. See chapter 1.1.1.1. for details.
	slaveMer-chantID	Long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchan-ts.
	BDRID	Long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
Output		TransactionManager.ECommerce.ReservationInfo		
Exception		TransactionManager.Payments.PaymentException		

Table 2-v: Method for Interface: TransactionManager.Ecommerce – rcStatusReservation

2.5. EXCEPTION HANDLING

When working with the Transaction Manager Interface it is possible an exception will be returned when executing any of the documented methods.

For an easier understanding of the errors, these can be grouped in the following categories:

- Customer Status Exception
- Customer Payment Exception
- Configuration/Communication Error (Merchant)
- Technical Error (ClickandBuy)

Each ClickandBuy exception returns a response to the merchant's system with an "id" and "message" element contained within the returned SOAP XML. The merchant is required to parse this response and handle the error. Based upon the type of error returned the merchant will be required to resolve a configuration/communication error in their call, display information to the customer on how to solve the problem with the purchase, or to automatically retry the call after some moments up to a certain threshold.

Please study the following activity diagram. A table of currently documented errors is included in the appendix of this document as a guide to the error types.

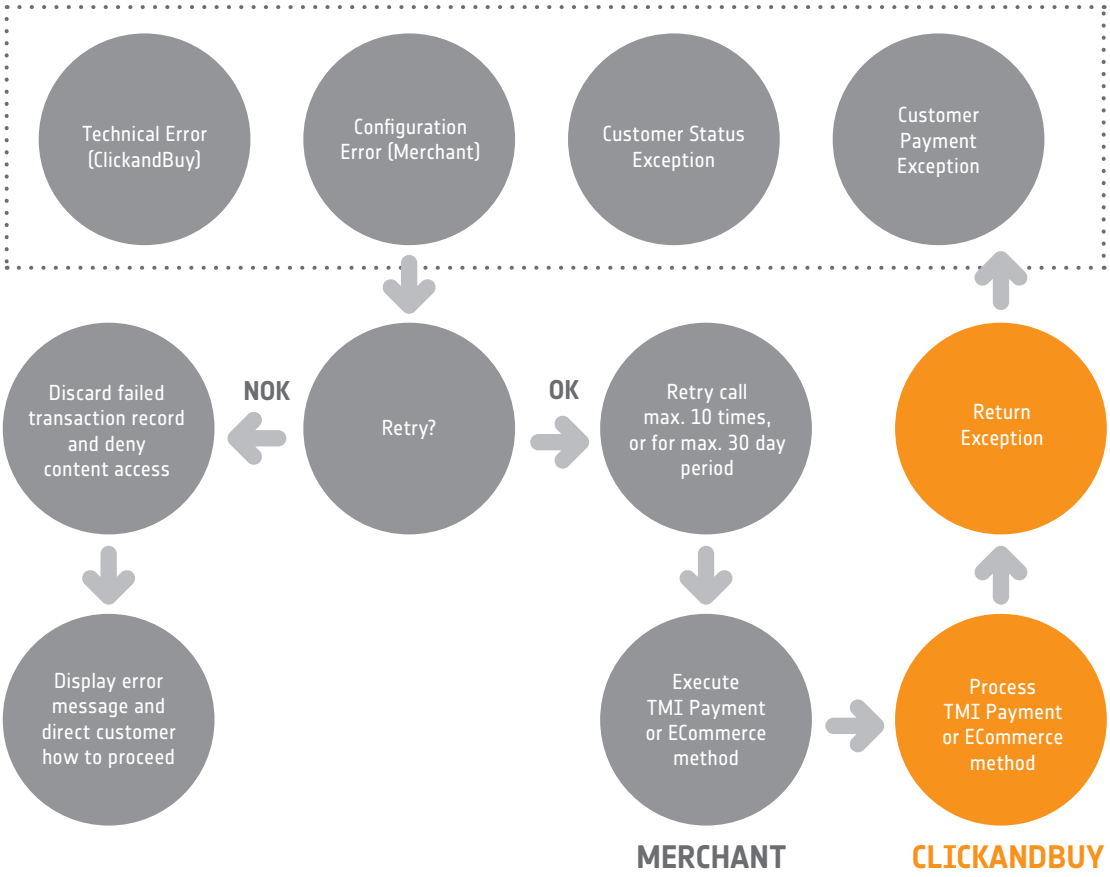

Figure 2-d: Recommended error handling workflow

NOTES:

Many exceptions can be retried due to the possibility that the credit status or payment settings of the customer can change.

3 TRANSACTION MANAGER VIA THE SERVICE AREA

In addition to the SOAP Web Service the Transaction Manager Interface is also available via a user-friendly GUI from within a ClickandBuy merchant account.

To access the GUI simply visit **www.clickandbuy.com**, log into your account and select the "Transaction Manager" from the left hand navigation.

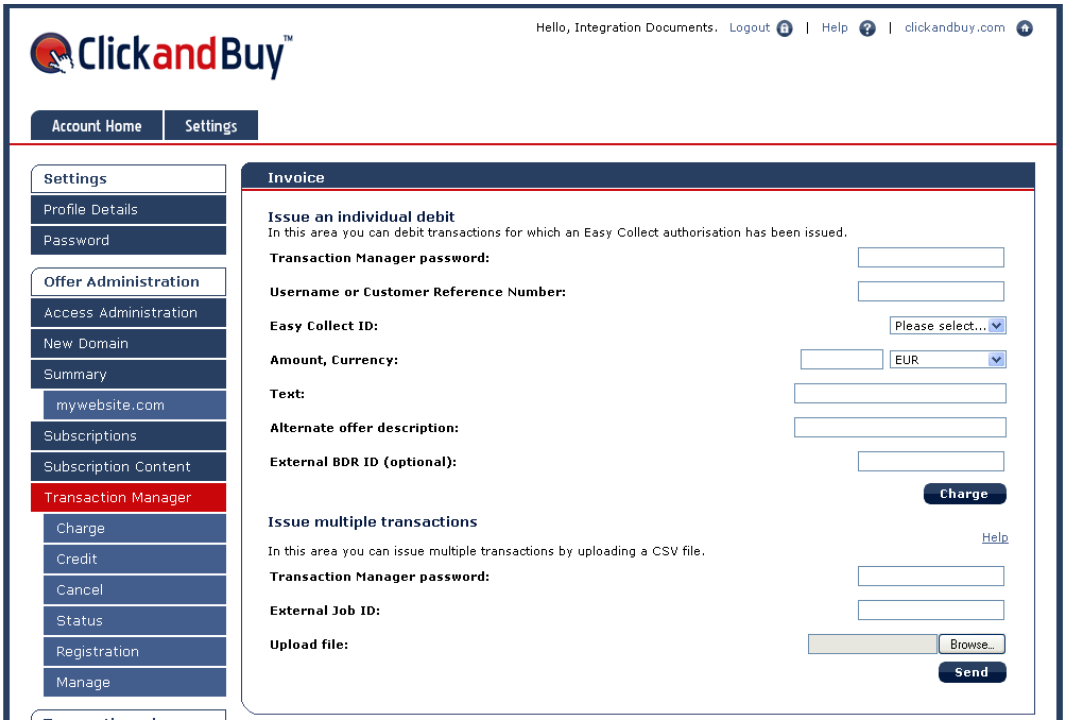

Figure 3-a: Transaction Manager GUI

3.1. PAYMENT TRANSACTIONS

The Payment interface allows the following transaction types to be processed by the merchant via the Transaction manager GUI:

- DEBIT
- CREDIT
- CANCEL

NOTES:
The ClickandBuy Ecommerce Reserve/Capture feature is currently not available via the Transaction manager GUI

3.1.1. DEBIT

To issue an individual debit to a customer with an active Easy Collect authorisation select "Transaction Manager -> Charge" from the left hand navigation. The following form will be displayed in the body of the page.

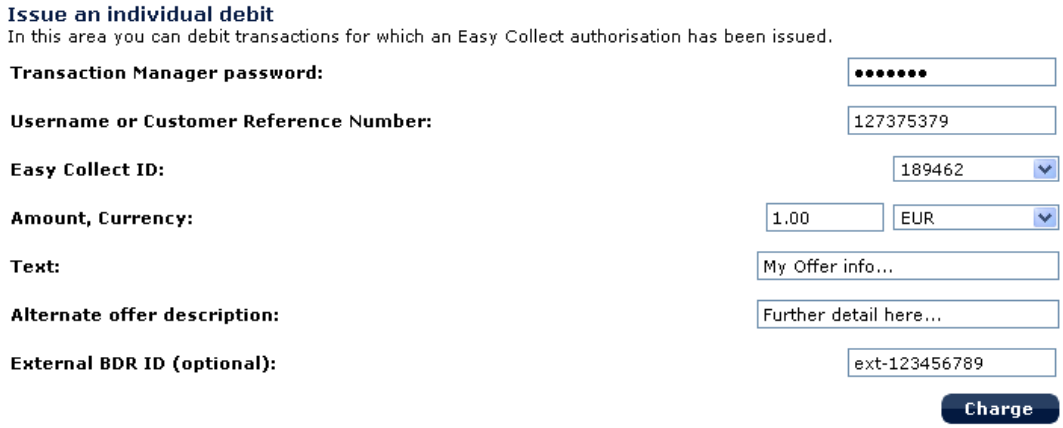

Figure 3-b: Issue an individual debit request

The following information is required to issue an individual debit.

Transaction Manager Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alphanumeric password. See chapter 1.1.1.1. for details on how to set and obtain this value
Username/Customer Reference Number.	Enter the unique credentials of the customer you will debit.
Easy Collect ID.	Select the Easy Collect ID the customer is authorised for from the drop-down menu.
Amount, Currency	The amount and currency to charge the customer (in whole $, €, £ etc.)
Text	Optional text to populate the offerDescription for the customer's invoice with details of the charge. Max 1000 characters
Alternate offer description	Optional text to populate the Seller Content Info for your records. Max 1000 characters
External BDR ID	Merchant system's transaction ID. Value must be unique for each transaction

Table 3-a: Issue an individual debit request.

You will receive a response from the system if the transaction was successful, typically within 5 seconds. In the event of an error, the system will present you with a clear message within the browser.

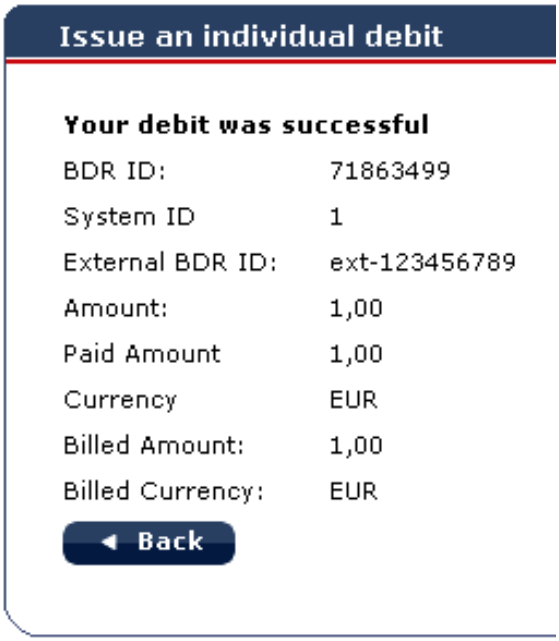

Figure 3-c: Successful debit request response

NOTES:
Payments processed via the Transaction manager GUI will not store the details in the merchants own database. A reconciliation will be required if the data needs to be stored in the merchant database as well as the ClickandBuy system.

3.1.2. CREDIT

To issue an individual credit to a customer select "Transaction Manager -> Credit" from the left hand navigation. The following form will be displayed in the body of the page.

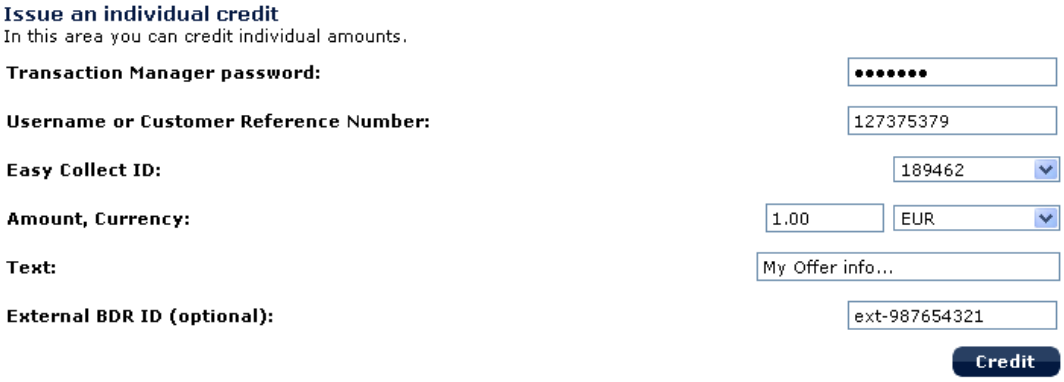
Issue an individual credit
In this area you can credit individual amounts.
Transaction Manager password:
Username or Customer Reference Number: 127375379
Easy Collect ID: 189462
Amount, Currency: 1.00 EUR
Text: My Offer info...
External BDR ID (optional): ext-987654321
Credit

Figure 3-d: Issue an individual credit request

The following information is required to issue an individual credit.

Transaction Manager Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alphanumeric password. See chapter 1.1.1.1. for details on how to set and obtain this value.
Username/Customer Reference Number.	Enter the unique credentials of the customer you will credit.
Easy Collect ID.	Select the Easy Collect ID the customer is authorised for from the drop-down menu.
Amount, Currency	The amount and currency to charge the customer (in whole $, €, £ etc).
Text	Optional text to populate the offerDescription for the customer's invoice with details of the charge. Max 1000 characters
External BDR ID	Merchant system's transaction ID. Value must be unique for each transaction.

Table 3-b: Issue an individual credit request.

You will receive a response from the system if the transaction was successful, typically within 5 seconds. In the event of an error, the system will present you with a clear message within the browser.

NOTES:
Once a credit transaction is successfully processed it cannot be cancelled.

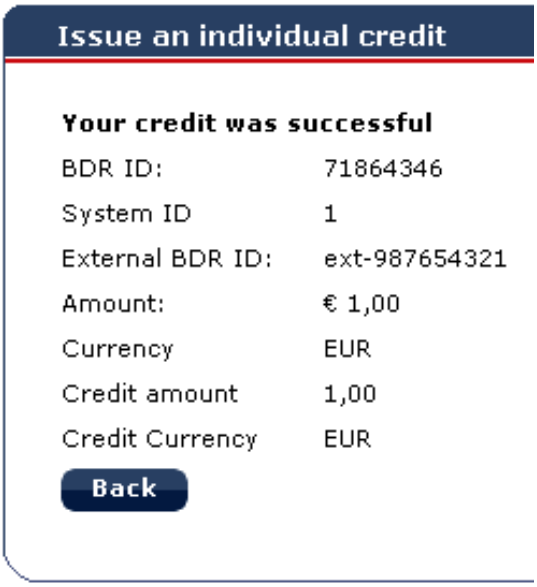

Figure 3-e: Successful credit request response

NOTES:
Payments processed via the Transaction manager GUI will not store the details in the merchants own database. A reconciliation will be required if the data needs to be stored in the merchant database as well as the ClickandBuy system.

3.1.2.1 EMAIL CREDIT

An additional feature of the Transaction Manager is the ability to issue credit to an E-mail address.

When an E-mail credit is issued the addressee will receive an E-mail informing them of the available credit with instructions as to how it can be claimed. This will be followed by a second reminder E-mail sent after 14 days if no action is taken by the customer. If unclaimed by the customer after a period of 30 days an E-mail credit will be automatically cancelled by the system.

If the recipients email address is already registered and confirmed against an existing ClickandBuy customer account the amount will instantly be credited to the user account. If the E-mail address is not currently registered at ClickandBuy the recipient is required to register an account and to confirm their E-mail address before they can claim the credit.

To issue an individual E-mail credit to a customer select [Transaction Manager >> Credit] from the left hand navigation. The following form will be displayed in the body of the page.

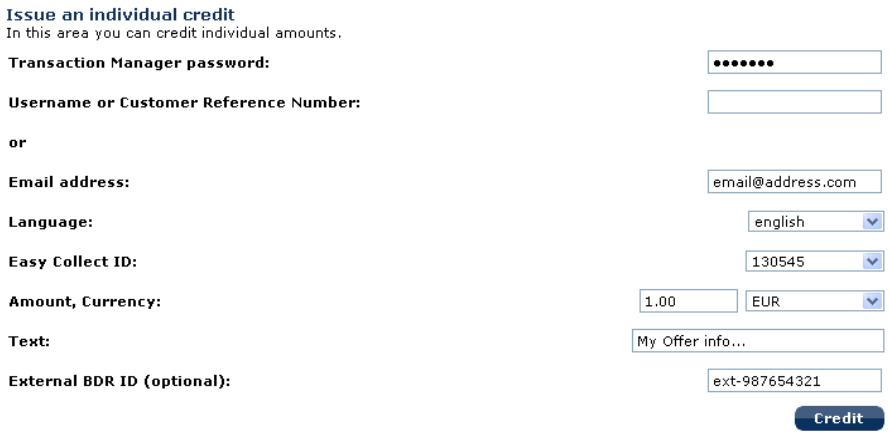

Fig 3-f: Issue an individual credit request

The following information is required to issue an individual credit.

Transaction Manager Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alphanumeric password. See chapter 1.1.1.1. for details on how to set and obtain this value.
Email Adress	Enter the unique credentials of the customer you will credit.
Language	Select the language of the email the customer will receive
Easy Collect ID.	Select the Easy Collect ID the customer is authorised for from the drop-down menu.
Amount, Currency	The amount and currency to charge the customer (in whole $, €, £ etc).
Text	Optional text to populate the offerDescription for the customer's invoice with details of the charge. Max 1000 characters
External BDR ID	Merchant system's transaction ID. Value must be unique for each transaction.

Table 3-g: Issue an individual E-mail credit request.

You will receive a response from the system if the transaction was successful, typically within 5 seconds. In the event of an error, the system will present you with a clear message within the browser.

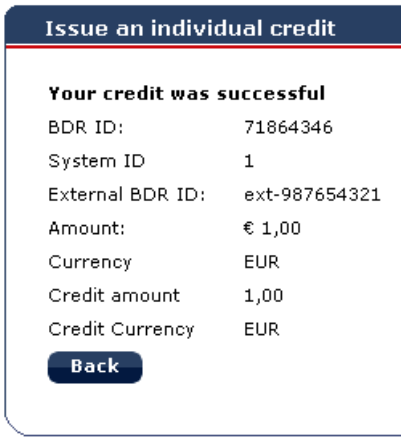

Fig 3-h: Successful credit request response

NOTES:
Payments processed via the Transaction manager GUI will not store the details in the merchants own database. A reconciliation will be required if the data needs to be stored in the merchant database as well as the ClickandBuy system.

An overview of all E-mail credits and their current status 'claimed, unclaimed, cancelled' can be found in your ClickandBuy account by navigating to [Transactions/Statements >> Email Credits]

Here you are also able to download the data as CSV and XLS file.

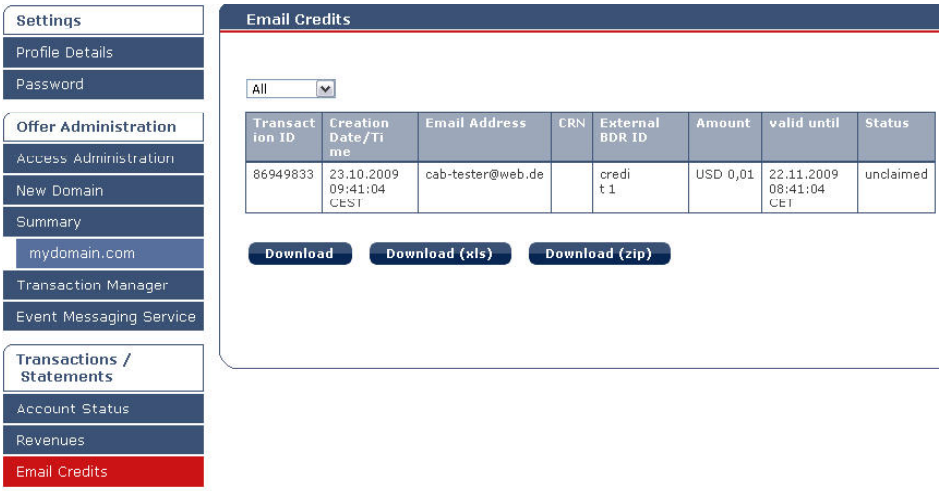

Fig 3-i: Overview credits via E-mail

3.1.3. CANCEL

To cancel an individual transaction select "Transaction Manager -> Cancel" from the left hand navigation. The following form will be displayed in the body of the page.

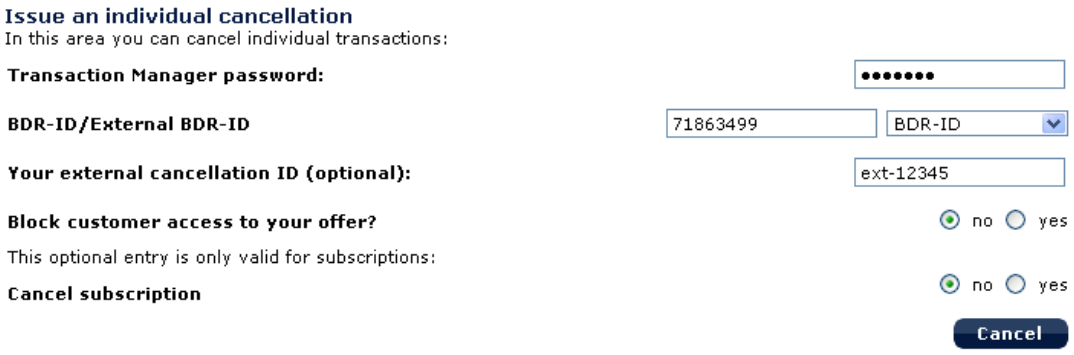

Figure 3-j: Issue an individual cancel request

NOTES:
A transaction record can be cancelled up to 1 year from the original transaction date.

The following information is required to cancel a transaction record.

Transaction Manager Password	Your Transaction Manager Interface password (tmPassword). A min 6 character alphanumeric password. See chapter 1.1.1.1. for details on how to set and obtain this value.
BDR-ID/External BDR-ID	Enter the unique credentials of the transaction you will cancel (the ClickandBuy transaction ID or your own transaction ID – be sure to select the correct type from the drop down menu).
Your external cancellation ID	Optional merchant system's cancellation ID. Value must be unique for each transaction.
Block customer access to your offer	Optionally block the customer from making future purchase at your site (useful in cases of fraud).
Cancel subscription	Optionally cancel the customer's subscription if the transaction is related to a ClickandBuy subscription offer you run. Please select "no" as default if not using subscriptions.

Table 3-k: Issue an individual cancel.

Upon hitting the "Cancel" button you will be presented with the details of the original transaction and asked to confirm the cancellation.

Please confirm the cancellation of the following transaction:

BDR ID:	71863499
External BDR ID:	ext-123456789
External cancellation ID:	ext-12345
Date/Time:	26.01.2009 16:55:10 CET
Link:	My Offer info...
Amount:	€ 1,00
Billed Amount:	1,00
Billed Currency:	EUR
Information:	My Offer info...

for the customer

Customer Reference No: 127375379

◄ Back Cancel this amount

Figure 3-n: Issue an individual cancel request

You will receive a response from the system if the cancellation was successful, typically within 5 seconds. In the event of an error, the system will present you with a clear message within the browser.

Issue an individual cancellation

Your cancel was successful

BDR ID:	71863499
System ID	1
External BDR ID:	ext-123456789
External cancellation ID:	ext-12345
Amount:	€ 1,00
Currency	EUR

◄ Back

Figure 3-o: Issue an individual cancel response

NOTES:
Cancellations processed via the Transaction manager GUI will not store the details in the merchants own database. A reconciliation will be required if the data needs to be stored in the merchant database as well as the ClickandBuy system.

3.1.4. BATCH TRANSACTION PROCESSING

Batch transaction processing is also an available option of the Transaction manager GUI by use of a CSV file upload. The transactions processed are linked together in jobs. Each item within the CSV file is processed sequentially and the maximum number of items cannot exceed 1000 rows for an individual file. The response or processing time of a batch job is dependant on the number of payment transactions contained within the request, each requiring typically 5 seconds.

NOTES:
Debit, Credit and Cancel transactions can all be processed together in a single job.

A batch file can be submitted from the Charge, Credit or Cancel menu of the Transaction Manager GUI via the following form.

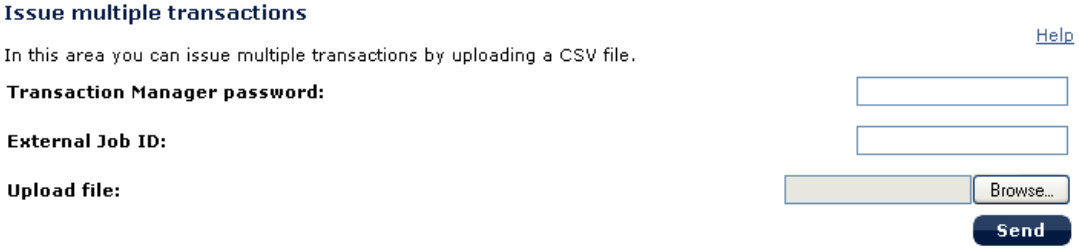

Figure 3-p: Submitting a batch file

The Transaction Manager password and an optional External Job ID are required before browsing the location of the CSV file from a local machine and clicking the Send button.

A successfully processed Job will return the JobID in the following system response.

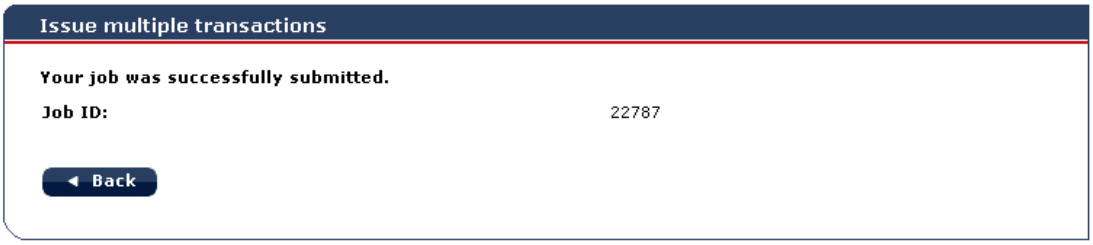

Figure 3-q: Successfully submitted batch file

NOTES:
Any errors found in the submitted file will be detailed clearly within the Transaction manager GUI after choosing to send the file.

3.1.4.1. DEBIT SYNTAX

The CSV file must have the following column syntax per payment transaction type Debit.

ACTION	DEBIT
EasyCollectID	The Easy Collect ID the customer is authorised against
CRN	Enter the unique customer reference number of the customer you will debit.
BDRID	EMPTY
ExternalBDRID	Merchant system's transaction ID. Optional value that must be unique for each transaction
ExternalCancelID	EMPTY
Amount	Amount to be debited in cents/pence
Currency	ISO4217, 3 character currency code (see the appendix of this document for supported values)
IntContentDescription	Internal description text
cancelSubscription	EMPTY
lockUser	EMPTY
urlInfo	Transaction info text

Table 3-p: Batch Transaction Debit requirements.

An example in CSV format would be:

```
DEBIT,144919,102291808,,debit-123,,10,EUR,Internal Description,,,Info text
```

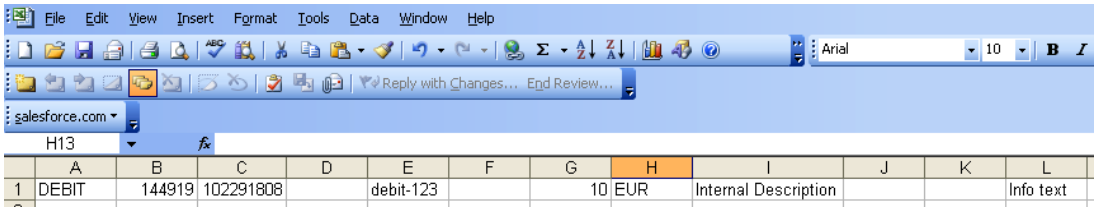
File Edit View Insert Format Tools Data Window Help
Arial 10
Reply with Changes... End Review...
salesforce.com
H13
A B C D E F G H I J K L
1 DEBIT 144919 102291808 debit-123 10 EUR Internal Description Info text

Figure 3-q: Batch Transaction Debit requirements.

NOTES:
The amount must be communicated in cents/pence when working with CSV files and the Transaction Manager

3.1.4.2. CREDIT SYNTAX

The CSV file must have the following column syntax per payment transaction type credit.

ACTION	CREDIT
EasyCollectID	The Easy Collect ID the transaction is to be associated to
CRN	Enter the unique customer reference number of the customer you will credit.
BDRID	EMPTY
ExternalBDRID	Merchant system's transaction ID. Optional value that must be unique for each transaction
ExternalCancelID	EMPTY
Amount	Amount to be debited in cents/pence
Currency	ISO4217, 3 character currency code (see the appendix of this document for supported values)
IntContentDescription	Internal description text
cancelSubscription	EMPTY
lockUser	EMPTY
urlInfo	Transaction info text

Table 3-r: Batch Transaction Credit requirements.

An example in CSV format would be:

```
CREDIT,144919,102291808,,credit-123,,10,EUR,Internal Description,,,Info text
```

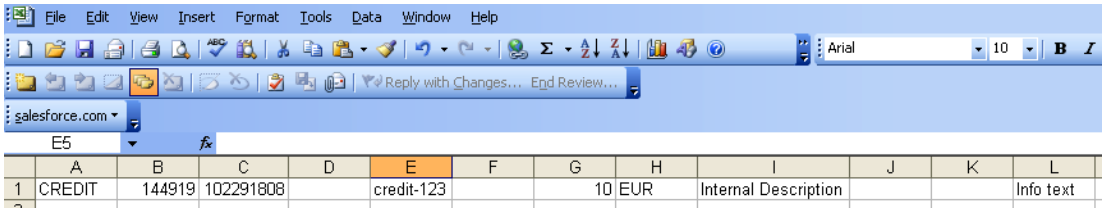
File Edit View Insert Format Tools Data Window Help
Arial 10
Reply with Changes... End Review...
salesforce.com
E5
A B C D E F G H I J K L
1 CREDIT 144919 102291808 credit-123 10 EUR Internal Description Info text

Figure 3-s: Batch Transaction Credit requirements.

NOTES:
The amount must be communicated in cents/pence when working with CSV files and the Transaction Manager

3.1.4.3. EMAIL CREDIT SYNTAX

The CSV file must have the following column syntax per payment transaction type E-mail Credit.

ACTION	EMAILCREDIT
EasyCollectID	The Easy Collect ID the transaction is to be associated to
Email address	Enter the unique Email address of the customer you will credit.
BDRID	EMPTY
ExternalBDRID	Merchant system's transaction ID. Optional value that must be unique for each transaction
ExternalCancelID	EMPTY
Amount	Amount to be debited in cents/pence
Currency	ISO4217, 3 character currency code (see the appendix of this document for supported values)
IntContentDescription	Internal description text
cancelSubscription	EMPTY
lockUser	EMPTY
urlInfo	Transaction info text

Table 3-t: Batch Transaction Cancel requirements.

An example in CSV format would be:

```
EMAILCREDIT,144919,email@address.com,,credit-123,,10,EUR,Internal
Description,,,Info text
```

Issue an individual credit
In this area you can credit individual amounts.
Transaction Manager password:
Username or Customer Reference Number:
or

Figure 3-u: Batch Transaction Cancel requirements.

NOTES:
The amount must be communicated in cents/pence when working with CSV files and the Transaction Manager

3.1.4.4. CANCEL SYNTAX

The CSV file must have the following column syntax per payment transaction type Cancel.

ACTION	CANCEL
EasyCollectID	EMPTY
CRN	EMPTY
BDRID	ClickandBuy transaction ID
ExternalBDRID	Merchant system's transaction ID.
ExternalCancelID	Optional cancellation reference number; must be unique for each transaction
Amount	EMPTY
Currency	EMPTY
IntContentDescription	EMPTY
cancelSubscription	TRUE or FALSE; dependant upon the requirements
lockUser	TRUE or FALSE; dependant upon the requirements
urlInfo	EMPTY

Table 3-v: Batch Transaction Cancel requirements.

An example in CSV format would be:

```
CANCEL,,,12345678,,cancel-123,,,,FALSE,FALSE
```

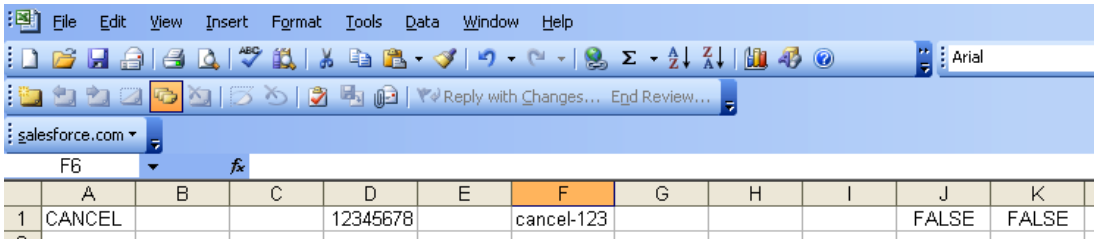
File Edit View Insert Format Tools Data Window Help
Arial
Reply with Changes... End Review...
salesforce.com
F6
A B C D E F G H I J K
1 CANCEL 12345678 cancel-123 FALSE FALSE

Figure 3-w: Batch Transaction Cancel requirements.

NOTES:
For a cancellation the BDRID or externalBDRID must be referenced, both values should not be passed together in the same row.

3.2. STATUS QUERIES

The Transaction manager GUI also allows a merchant to run status queries that deliver exact information about individual payment transactions, the status of a customer and/or information about the status of batch processing.

Using these methods it is possible to submit queries to obtain information such as:

- The current status of a customer
- The current status of a transaction
- The current status of a job
- Details of a customers purchase history within a specified time period

To access the Status menu select "Transaction Manager -> Status" from the left hand navigation. The following form will be displayed in the body of the page.

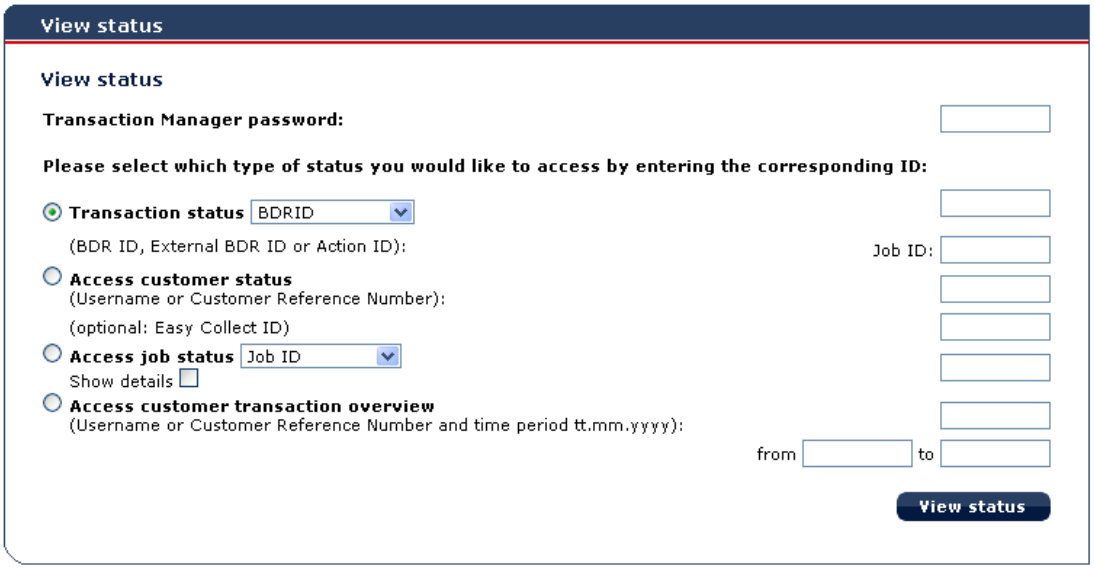

Figure 3-x: Transaction Manager GUI Status menu.

The Transaction Manager Password is required when submitting all status queries. To select a status type you are required to use the radio buttons to the left of each label, enter the data to be queried in the form fields to the right and click the "View status" button.

The Status queries available are detailed in the table on the following page.

Transaction status	Query the status of an individual transaction by choosing the type BDRID, External BDR ID or Action ID from the drop down menu and entering the value in the form field opposite.
Access Customer status	Query the status of a customer by entering their ClickandBuy account username or customer reference number in the form field. Optionally an Easy Collect ID can be supplied to query the status of their authorisation along with their account.
Access job status	Query the status of a job by Job ID or External Job ID. Optionally tick the check-box “Show details” to return information for the individual Items “transactions” within the job.
Access customer transaction overview	Query the status of a customer’s transaction history by entering their ClickandBuy account username or customer reference number in the form field along with the date range required.

Table 3-y: Transaction Manager Status.

Once executed, the result of the status query will be output with the Transaction Manager GUI.
If for any reason an error occurs this too will be output within the GUI.

3.3. CUSTOMER REGISTRATION

It is possible to register a ClickandBuy customer account and authorise Easy Collect via the Transaction Manager GUI by selecting "Transaction Manager -> registration" from the left hand navigation.

Figure 3-z: Transaction Manager GUI Customer Registration.

Select the appropriate Easy Collect ID from the drop-down menu and click the Registration button to proceed.

A popup will launch containing a registration form you will be required to complete in its entirety. After registration is completed you will be presented with the offline Easy Collect Authorisation workflow to activate the customer for Easy Collect billing. See chapter 1.3 for further details of completing authorisation.

Following successful registration the customer will receive an email with their new account username and a temporary password which they will be asked to change on first login at the ClickandBuy website or a merchants ClickandBuy URLs.

NOTES:
The email address and payment method of the customer cannot be registered to a new account if they are already associated to an existing account on the ClickandBuy system. First clarify with the customer if they are an existing account holder. If so simply issue an offline authorisation for their existing account as detailed in chapter 1.3 to enable them for billing.

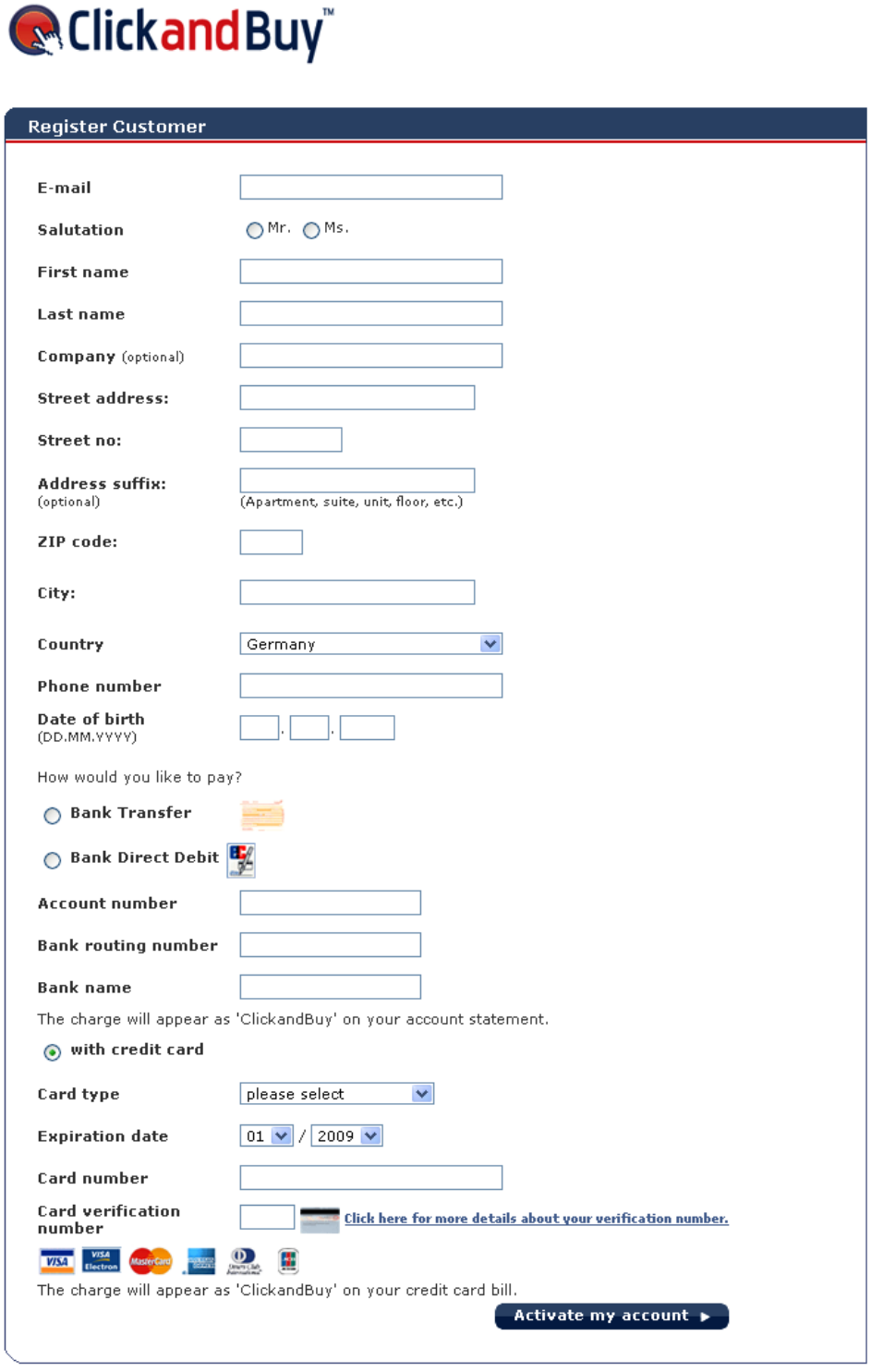

Figure 3-aa: Transaction Manager GUI Customer Registration form.

NOTES:
The payment methods available for customer registration differ depending on the Country the customer resides in.

3.4. ADMINISTRATION

The Transaction Manager Administration panel is available by navigation to “Transaction Manager -> Manage” in the left hand navigation.

Figure 3-ab: Transaction Manager GUI Administration panel.

You can perform the following actions in Transaction Manager Administration:

- change the Transaction Manager password (see chapter 1.1.1.1.)
- issue offline authorisations for an Easy Collect ID (see chapter 1.3.)
- view active Easy Collect authorisations or download them in a CSV file
- view cancelled Easy Collect authorisations or download them in a CSV file

4 APPENDIX

4.1. COMPLEX TYPES

Complex Types for Interfaces: TransactionManager.Payment, TransactionManager.Status and TransactionManager.ECommerce.

ClickAndBuy.Property

NAME	TYPE	FORMAT	DESCRIPTION
name	string		
value	string		

Table 4-1: Complex Types for Interfaces: ClickandBuy.Property

ClickAndBuy.PropertyList (unbound sequence)

NAME	TYPE	FORMAT	DESCRIPTION
item	ClickandBuy.Property		

Table 4-2: Complex Types for Interfaces: ClickandBuy.PropertyList (unbound sequences)

4.1.1. EASY COLLECT

ClickandBuy.EasyCollect.EasyCollectQuery660

NAME	TYPE	FORMAT	DESCRIPTION
slaveMerchantID	long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchants.
crn	long	Automatically generated by the system, in range long: 0, 12678967543233	Customer Reference Number. This is a unique identifier for a ClickandBuy customer.
easyCollectID	long	Automatically generated by the system, in range long: 0, 12678967543233	This is the Easy Collect ID automatically generated by the System for each Easy Collect link created by the merchant.
Email address	string		When you pass an Email address the credit via Email functionality is being used.
external-BDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
amount	unsignedInt	In cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
urlInfo	string	ISO 8859-1, 1000 Characters	This text describes your offer and is shown on all invoice documents.
Internal-Content-Description	string	ISO 8859-1, 1000 Characters	The Internal Content Description parameter allows you to specify an alternate description for your content, to be used only for reporting purposes “csv files and Event Messaging Service”, that does not appear on the customer’s invoice.
email-LanguageCode	string	2 characters	The ClickandBuy system supports the following languages, for which the following values can be passed as parameters: cs (Czech) / da (Danish) / de (German) / en (English) / es (Spanish) fi (Finnish) / fr (French) / it (Italian) / nl (Dutch) / no (Norwegian) / pl (Polish) pt (Portuguese) / sv (Swedish) / tr (Turkish)

Table 4-3: Complex Types for Interfaces: ClickandBuy.EasyCollect.EasyCollectQuery660

ClickandBuy.EasyCollect.EasyCollectResult

NAME	TYPE	FORMAT	DESCRIPTION
BDRID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
amount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
systemID	long	currently 1 digit	This is the ID of the ClickandBuy system the merchant is registered in.
explicitCommit	Boolean	true, false	
paidAmount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This is the amount actually debited. It is the sum of the price minus any discounts.
billedAmount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This is the amount actually debited. It is the sum of the price minus any discounts.
billedCurrency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
paymentMethodSafety	string	SAFE, UNSAFE, WAIT FOR PRN	Indication of the customer's payment method safety. Only returned if activated for your account by ClickandBuy.
customerinfo	long	currently 1 digit, values 1 or 2	Indication of the customer's trust level. Only returned if activated for your account by ClickandBuy.

Table 4-4: Complex Types for Interfaces: ClickandBuy.EasyCollect.EasyCollectResult

ClickandBuy.EasyCollect.ReservationResult

NAME	TYPE	FORMAT	DESCRIPTION
reservationID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Reservation ID
systemID	long	currently 1 digit	This is the ID of the ClickandBuy system the merchant is registered in.
amount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.

Table 4-5: Complex Types for Interfaces: ClickandBuy.EasyCollect.ReservationResult

ClickandBuy.EasyCollect.EmailCreditResult

NAME	TYPE	FORMAT	DESCRIPTION
transactionID	long	Automatically generated by the system, in range long: 0, 12678967543233	The transactionID is a temporary ID of a credit via email transaction.
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
amount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
systemID	long	currently 1 digit	This is the ID of the ClickandBuy system the merchant is registered in.
paymentMethodSafety		ClickAndBuy.ECommerce.PaymentMethodSafety	
customerinfo	short	currently 1 digit, values 1 or 2	Indication of the customer's trust level. Only returned if activated for your account by ClickandBuy

Table 4-5: Complex Types for Interfaces: ClickandBuy.EasyCollect.EmailCreditResult

4.1.2. TRANSACTION

ClickandBuy.Transaction.CancelQuery

NAME	TYPE	FORMAT	DESCRIPTION
slaveMerchantID	long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchants.
BDRID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
externalCancelID	string	Maximum 64 characters, ISO 8859-1	Merchants Cancellation ID
lockUser	Boolean	TRUE or FALSE	Specify whether to block the user from future purchase
cancelSubscription	Boolean	TRUE or FALSE	Specify whether cancel the user's subscription if bound to the original transaction
amount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.

Table 4-6: Complex Types for Interfaces: ClickandBuy.Transaction.CancelQuery

ClickandBuy.Transaction.CancelResult

NAME	TYPE	FORMAT	DESCRIPTION
BDRID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
external-CancelID	string	Maximum 64 characters, ISO 8859-1	Merchants Cancellation ID
amount	unsignedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
systemID	long	currently 1 digit	This is the ID of the ClickandBuy system the merchant is registered in.

Table 4-7: Complex Types for Interfaces: ClickandBuy.Transaction.CancelResult

ClickandBuy.Transaction.BDRStatus

NAME	TYPE	FORMAT	DESCRIPTION
BDRID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
URLID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Link ID. Each purchase link created by a merchant has its own unique ID number.
price	unsig-nedInt	in cents, 10 digits in range 0 to 1267896754	This parameter denotes the amount to be debited, credited or cancelled.
currency	string	ISO4217, 3 characters	Indicates the currency of the transaction.
noVat	Boolean	True or False	If a BDR carries the “noVat” parameter, the BDR will be presented on debiting documents that do not show tax.

NAME	TYPE	FORMAT	DESCRIPTION
linkName	string	ISO 8859-1, 1000 characters	The Link Name is the static counterpart to the UrlInfo parameter and serves to describe the offer. The name is defined in the service area when a link is set up, and it will appear in the debiting documents and in the reports “csv files and Event Messaging Service”.
adtlURLInfo	string	ISO 8859-1, 1000 characters	This text describes your offer and is shown on all invoice documents.
clickURL	string	ISO 8859-1, 1000 characters	Returns the exact URL a customer clicked
surferIP	string	RFC 791, 15 characters	The user’s IP address at the time of purchase
isChargeBack	Boolean	True or False	true indicates a payment failure for a transaction
creationDateTime	string	YYYYMMDDHH24MISS (UTC)	The date/time the BDR was created
crn	long	Automatically generated by the system, in range long: 0, 12678967543233	Customer Reference Number. This is a unique identifier for a ClickandBuy customer.
BDRProperties	ClickAndBuy.PropertyList		

Table 4-8: Complex Types for Interfaces: ClickandBuy.Transaction.BDRStatus

ClickandBuy.Transaction.BDRStatusList (unbound sequence)

NAME	TYPE	FORMAT	DESCRIPTION
item	ClickandBuy.Transaction.BDRStatus		

Table 4-9: Complex Types for Interfaces: ClickandBuy.Transaction.BDRStatusList (unbound sequence)

ClickandBuy.Transaction.CustomerStatusType (enum)

NAME	TYPE	FORMAT	DESCRIPTION
OK	string		
LOCKED	string		
TERMINATED	string		

Table 4-10: Complex Types for Interfaces: ClickandBuy.Transaction.CustomerStatusType

ClickandBuy.Transaction.EmailCreditState (enum)

NAME	TYPE	FORMAT	DESCRIPTION
CREATED	string		
CLAIMED	string		
EXPIRED	string		

Table 4-10a: Complex Types for Interfaces: ClickandBuy.Transaction.EmailCreditState

ClickandBuy.Transaction.CustomerStatus

NAME	TYPE	FORMAT	DESCRIPTION
crn	long	Automatically generated by the system, in range long: 0, 12678967543233	Customer Reference Number. This is a unique identifier for a ClickandBuy customer.
nationCode	string	ISO 3166-1, 2 characters	The registered nation code of the customer
languageCode	string	ISO 639-1, 2 characters	The registered language code of the customer
status	ClickandBuy.Transaction.CustomerStatusType		
isPrepaid	Boolean	True or False	Indicates if the customer account is type prepaid
isCreditExhausted	Boolean	True or False	Indicates whether a customer's credit has already been exhausted at the time of the query.
isEasyCollectGranted	Boolean	True or False	Indicates whether the customer has granted an active Easy Collect Authorisation for the Easy Collect ID entered.

Table 4-11: Complex Types for Interfaces: ClickandBuy.Transaction.CustomerStatus

ClickandBuy.Transaction.EmailCreditStatus

NAME	TYPE	FORMAT	DESCRIPTION
transactionID	long	Automatically generated by the system	The transactionID is a temporary ID of a credit via email transaction.
externalBDRID	string	Maximum 64 characters, ISO 8859-1	Merchants Transaction ID
creationDateTime	string	YYYYMMDDHH24MISS (UTC)	The date/time the credit via Email was created
Email address	string		When you pass an Email address the credit via Email functionality is being used

NAME	TYPE	FORMAT	DESCRIPTION
state	ClickAndBuy.Transaction.EmailCreditState		
expirationDate-Time	string	YYYYMMDDHH24MISS (UTC)	The date/time the credit via Email will be cancelled if unclaimed

Table 4-11a: Complex Types for Interfaces: ClickandBuy.Transaction.EmailCreditStatus

ClickandBuy.Transaction.BDRProcessingState

NAME	TYPE	FORMAT	DESCRIPTION
iscommitted	Boolean	True, False, 1 or 0	If the method returns the Boolean values “1” or “true”, ClickandBuy considers the transaction to be confirmed. If the method returns the Boolean values “0” or “false”, ClickandBuy considers this transaction to be unconfirmed.
BDRID	long	Automatically generated by the system, in range long: 0, 12678967543233	ClickandBuy Transaction ID

Table 4-12: Complex Types for Interfaces: ClickandBuy.Transaction.BDRProcessingState

4.1.3. PAYMENT

TransactionManager.Payment.TransactionType (enum)

NAME	TYPE	FORMAT	DESCRIPTION
DEBIT	string		
CREDIT	string		
CANCEL	string		
EMAIL CREDIT	string		

Table 4-13: Complex Types for Interfaces: TransactionManager.Payment.TransactionType (enum)

TransactionManager.Payment.PaymentRequest660 (union)

NOTES:
Define which case should be used by using the discriminator attribute (see chapter 4.2 for SOAP example).

NAME	TYPE	CASE
(select only one)		(TransactionManager.Payment.TransactionType)
debReq	ClickandBuy.EasyCollect.EasyCollect-Query660	DEBIT
credReq	ClickandBuy.EasyCollect.EasyCollect-Query660	CREDIT
cancReq	ClickandBuy.Transaction.CancelQuery	CANCEL
emailCredReq	ClickAndBuy.EasyCollect.EasyCollect-Query660	EMAIL CREDIT

Table 4-14: Complex Types for Interfaces: TransactionManager.Payment.TransactionType (union)

TransactionManager.Payment.PaymentReqItems (unbound sequence)

NAME	TYPE	FORMAT	DESCRIPTION
item	TransactionManager.Payment.PaymentRequest		

Table 4-15: Complex Types for Interfaces: TransactionManager.Payment.PaymentReqItems (unbound sequence)

TransactionManager.PaymentResponse660 (union)

NOTES:
Define which case should be used by using the discriminator attribute (see chapter 4.2. for SOAP example)

NAME	TYPE	CASE
(select only one)		(TransactionManager.Payment.TransactionType)
debReq	ClickandBuy.EasyCollect.EasyCollect-Query660	DEBIT
credReq	ClickandBuy.EasyCollect.EasyCollect-Query660	CREDIT
cancReq	ClickandBuy.Transaction.CancelQuery	CANCEL
emailCredReq	ClickAndBuy.EasyCollect.EmailCreditResult	EMAILCREDIT

Table 4-16: Complex Types for Interfaces: TransactionManager.Payment.PaymentResponse660 (union)

TransactionManager.Payment.MultiRequest660

NAME	TYPE	FORMAT	DESCRIPTION
sellerID	long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
tmPassword	string	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
extJobID	long	ISO 8859-1, maximum 10 digits	Merchants own system ID for the job (optional)
requestList	TransactionManager.PaymentPaymentReqItems660		

Table 4-17: Complex Types for Interfaces: TransactionManager.Payment.MultiRequest660

TransactionManager.Payment.SingleRequest660

NAME	TYPE	FORMAT	DESCRIPTION
sellerID	long	Automatically generated by the system, in range long: 0, 12678967543233	This is your unique account reference number for ClickandBuy. It is listed as Merchant ID in your account profile.
tmPassword	string	ISO 8859-1, minimum 6, maximum 10 characters	The Transaction Manager Password is required for all web service calls. See chapter 1.1.1.1. for details
extJobID	long	ISO 8859-1, maximum 10 digits	Merchants own system ID for the job (optional)
requestList	TransactionManager.PaymentPaymentRequest660		

Table 4-18: Complex Types for Interfaces: TransactionManager.Payment.SingleRequest660

TransactionManager.Payment.PaymentException

NAME	TYPE	FORMAT	DESCRIPTION
id	short	Range of short -1, 12678	The ID of the error message
message	string	ISO 8859-1, minimum 6, maximum 1000 characters	The error message descriptive text

Table 4-19: Complex Types for Interfaces: TransactionManager.Payment.PaymentException

4.1.4. STATUS

TransactionManager.Status.ItemStatus (enum)

NAME	TYPE	FORMAT	DESCRIPTION
WAIT	string		
PROCESS	string		
FINISH	string		

Table 4-20: Complex Types for Interfaces: TransactionManager.Status.ItemStatus (enum)

TransactionManager.Status.TransStatusResponse660

NAME	TYPE	FORMAT	DESCRIPTION
transResponse	TransactionManager.Payment.Payment.Response660		
jobID	long	ISO 8859-1, max 10 digits	ClickandBuy system ID for the job
actionID	long	4 digits, min 0001, max 1000	The actionID identifies the individual transaction within a job
status	TransactionManager.Status.ItemStatus		
lastChange	string	YYYYMMDDHH24MISS (UTC)	Date/Time the job was last updated
error	string	ISO 8859-1, 1000 characters	The error message descriptive text
slaveMerchantID	long	Automatically generated by the system, in range long: 0, 12678967543233	The slaveMerchantIDs are the sellerIDs for your submerchants. The default value 0 should be passed if you have no submerchants.

Table 4-21: Complex Types for Interfaces: TransactionManager.Status.TransaStatusResponse660

TransactionManager.Status.TransStatItems660 (unbound sequence)

NAME	TYPE	FORMAT	DESCRIPTION
item	TransactionManager.Status.TransStatusResponse660		

Table 4-22: Complex Types for Interfaces: TransactionManager.Status.TransStatItems660 (unbound sequence)

TransactionManager.Status.JobStatusResponse

NAME	TYPE	FORMAT	DESCRIPTION
status	TransactionManager.Status.ItemStatus		
itemsAll	int	range of int. -1, 126789675	The number of records contained within the job
itemsProcessed	int	range of int. -1, 126789675	The number of records processed within the job
lastChange	string	YYYYMMDDHH24MISS (UTC)	Date/Time the job was last updated

Table 4-23: Complex Types for Interfaces: TransactionManager.Status.JobStatusResponse

TransactionManager.Status.JobStatusResponse660

NAME	TYPE	FORMAT	DESCRIPTION
status	TransactionManager.Status.ItemStatus		
itemsAll	int	range of int. -1, 126789675	The number of records contained within the job
itemsProcessed	int	range of int. -1, 126789675	The number of records processed within the job
lastChange	string	YYYYMMDDHH24MISS (UTC)	Date/Time the job was last updated
transactionsList	TransactionManager.Status.TransStatItems660		

Table 4-24: Complex Types for Interfaces: TransactionManager.Status.JobStatusResponse660

TransactionManager.Status.StatusException

NAME	TYPE	FORMAT	DESCRIPTION
id	short	Range of short -1, 12678	The ID of the error message
message	string	ISO 8859-1, minimum 6, maximum 1000 characters	The error message descriptive text

Table 4-25: Complex Types for Interfaces: TransactionManager.Status.statusException

4.1.5. ECOMMERCE

TransactionManager.ECommerce.Reservation

NAME	TYPE	FORMAT	DESCRIPTION
payment-Response	TransactionManager.Payment.PaymentResponse540		See chapter 4.1.3.
expiration-DateTime	string	YYYYMMDDHH24MISS (UTC)	Date/Time the reservation will expire

Table 4-26: Complex Types for Interfaces: TransactionManager.Ecommerce.Reservation

TransactionManager.ECommerce.ReservationStatus

NAME	TYPE	FORMAT	DESCRIPTION
status	string	values: RESERVED CAPTURED CANCELLED EXPIRED	Returns the status of the reservation

Table 4-27: Complex Types for Interfaces: TransactionManager.Ecommerce.ReservationStatus

TransactionManager.ECommerce.ReservationInfo

NAME	TYPE	FORMAT	DESCRIPTION
expiration-DateTime	string	YYYYMMDDHH24MISS (UTC)	Date/Time the reservation will expire
status	TransactionManager.EComerce.ReservationStatus		Returns the status of the reservation

Table 4-28: Complex Types for Interfaces: TransactionManager.Ecommerce.ReservationInfo

4.2. SOAP EXAMPLES

The following examples explain a typical communication between the merchant and the Transaction Manager Interface. Usually a SOAP toolkit is used to generate the XML requests shown below. You may, however, generate the request manually.

4.2.1. EXAMPLE 1: getEasyCollectSingle660 (DEBIT)

SOAP Request: the XML communication sent by a merchant's SOAP client

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <getEasyCollectSingle660 xmlns="TransactionManager.Payment">
       <sRequest>
           <sellerID>222333444</sellerID>
              <tmPassword>YourPassword</tmPassword>
              <extJobID>123</extJobID>
              <request>
              <discriminator>DEBIT</discriminator>
           <debReq>
              <slaveMerchantID>0</slaveMerchantID>
              <crn>111555000</crn>
              <easyCollectID>12345</easyCollectID>
              <externalBDRID>abc1111111</externalBDRID>
              <amount>1</amount>
              <currency>EUR</currency>
              <urlInfo>Info</urlInfo>
              <internalContentDescription>Text</internalContentDescription>
           </debReq>
           </request>
       </sRequest>
   </getEasyCollectSingle660>
</soapenv:Body>

</soapenv:Envelope>
```

SOAP Response: the XML communication returned by ClickandBuy for a successfully processed transaction

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <getEasyCollectSingle660Response xmlns="TransactionManager.Payment">
       <return>
           <discriminator>DEBIT</discriminator>
           <debResp>
              <BDRID xsi:type="xsd:long">12345678</BDRID>
              <externalBDRID xsi:type="xsd:string">abc1111111</externalBDRID>
              <amount xsi:type="xsd:unsignedInt">1</amount>
              <currency xsi:type="xsd:string">EUR</currency>
              <systemID xsi:type="xsd:long">1</systemID>
              <explicitCommit xsi:type="xsd:boolean">false</explicitCommit>
              <paidAmount xsi:type="xsd:unsignedInt">1</paidAmount>
              <billedAmount xsi:type="xsd:unsignedInt">1</billedAmount>
              <billedCurrency xsi:type="xsd:string">EUR</billedCurrency>
              <paymentMethodSafety xsi:type="xsd:string">SAFE</payment
              MethodSafety>
              <customerinfo xsi:type="xsd:short>1<customerinfo>
           </debResp>
       </return>
   </getEasyCollectSingle660Response>
</soapenv:Body>

</soapenv:Envelope>
```

4.2.2. EXAMPLE 2: isExternalBDRIDCommitted

SOAP Request: the XML communication sent by a merchant's SOAP client

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <isExternalBDRIDCommitted xmlns="TransactionManager.Status">
       <sellerID>222333444</sellerID>
       <tmPassword>YourPassword</tmPassword>
       <slaveMerchantID>0</slaveMerchantID>
       <externalBDRID>abc1111111</externalBDRID>
   </isExternalBDRIDCommitted>
</soapenv:Body>

</soapenv:Envelope>
```

SOAP Response (Positive): the XML communication returned by ClickandBuy for a successfully processed transaction

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
       <isExternalBDRIDCommittedResponse xmlns="TransactionManager.Status">
           <return>
              <isCommitted xsi:type="xsd:boolean">true</isCommitted>
           <BDRID xsi:type="xsd:long">12345678</BDRID>
       </return>
   </isExternalBDRIDCommittedResponse>
</soapenv:Body>

</soapenv:Envelope>
```

SOAP Response (Negative): the XML communication returned by ClickandBuy for an unsuccessfully processed transaction

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <SOAP-ENV:Fault>
       <faultcode>
           SOAP-ENV:TransactionManager.Status.StatusException
       </faultcode>
       <faultstring>
           Exception raised in: isExternalBDRIDCommitted
       </faultstring>
       <detail>
           <TransactionManager.Status.StatusException
           xsi:type="namesp1:TransactionManager.Status.StatusException">
              <message xsi:type="xsd:string">BDRIDNotFound</message>
              <id xsi:type="xsd:int">32</id>
           </TransactionManager.Status.StatusException>
       </detail>
       <faultactor>https://clickandbuy.com/</faultactor>
   </SOAP-ENV:Fault></soapenv:Body>

</soapenv:Envelope>
```

4.2.3. EXAMPLE 3: rcCreateReservation

SOAP Request: the XML communication sent by a merchant's SOAP client

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <rcCreateReservation xmlns="TransactionManager.ECommerce">
       <sRequest>
           <sellerID>222333444</sellerID>
           <tmPassword>YourPassword</tmPassword>
           <extJobID>123</extJobID>
           <request>
              <discriminator>DEBIT</discriminator>
           <debReq>
              <slaveMerchantID>0</slaveMerchantID>
              <crn>111555000</crn>
              <easyCollectID>12345</easyCollectID>
              <externalBDRID>abcd111111</externalBDRID>
              <amount>1</amount>
              <currency>EUR</currency>
              <urlInfo>Info</urlInfo>
              <internalContentDescription>Text</internalContentDescription>
           </debReq>
           </request>
       </sRequest>
   </rcCreateReservation>
</soapenv:Body>

</soapenv:Envelope>
```

SOAP Response: the XML communication returned by ClickandBuy for a successfully processed reservation

```
<?xml version="1.0" encoding="UTF-8"?>

<soapenv:Envelope
   xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>
   <rcCreateReservationResponse xmlns="TransactionManager.ECommerce">
       <return>
           <paymentResponse>
              <discriminator>DEBIT</discriminator>
              <debResp>
                <BDRID xsi:type="xsd:long">87654321</BDRID>
                <externalBDRID xsi:type="xsd:string">abcd111111</externalBDRID>
                <amount xsi:type="xsd:unsignedInt">1</amount>
                <currency xsi:type="xsd:string">EUR</currency>
                <systemID xsi:type="xsd:long">1</systemID>
                <explicitCommit xsi:type="xsd:boolean">false</explicitCommit>
                <paidAmount xsi:type="xsd:unsignedInt">1</paidAmount>
                <billedAmount xsi:type="xsd:unsignedInt">1</billedAmount>
                <billedCurrency xsi:type="xsd:string">EUR</billedCurrency>
                <paymentMethodSafety xsi:type="xsd:string">SAFE</payment-
                MethodSafety>
                <customerinfo xsi:type="xsd:short>1<customerinfo>
              </debResp>
           <paymentResponse>
              <expirationDateTime xsi:type="xsd:string">20090314141433</
              expirationDateTime>
       </return>
   </rcCreateReservationResponse>
</soapenv:Body>

</soapenv:Envelope>
```

4.3. DOCUMENTED ERROR CODES

When using the Transaction Manager Interface, the errors listed in the following table can occur. Errors occurring during the authorisation of users are displayed directly to the user while they are active on the ClickandBuy pages.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
0	NoError	---	---	No documented error
1	UserIsTerminated	Customer	N	The customer's ClickandBuy account has been closed. This may have been requested by the customer or by ClickandBuy.
2	CountryAccessDenied	Customer	N	Access for the customer's country of residence is blocked. This is configured within the merchants Access Administration.
3	UserIsMerchant	Customer	N	The customer reference number submitted is associated to a merchant account. Only customer accounts can be used with TMI.
4	UserIsLockedByMerchant	Customer	N	The ClickandBuy customer is blocked from accessing your content. This is configured within the merchants Access Administration.
5	UrlIDIsNotFound	Configuration	N	The Easy Collect ID that you have used for invoicing, crediting or for a status enquiry does not exist.
6	UserIsNotFound	Customer	N	The customer reference number that you have used for invoicing, crediting or for a status enquiry does not exist.
7	URLProblems	Configuration	N	The Easy Collect ID that you have used for invoicing, crediting or for a status enquiry is not activated.
8	UserIsOffline	Customer	N	The customer account that you have tried to invoice, credit or query the status of is not activated.
9	UserIsLocked	Customer	Y	The user is blocked and is therefore unable to make a purchase. This may have occurred for various reasons such as an invalid email address, expired credit card, etc.
10	UserIsCreditLocked	Customer	Y	The user is temporarily blocked as result of a failed payment.
11	UserIsDeleted	Customer	N	The customer reference number that you have used for invoicing, crediting or for a status enquiry no longer exists.
12	UserIsOutOfMoney	Payment	Y	The registered ClickandBuy account cannot currently be debited.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
13	AmountTooHigh	Configuration	N	The amount entered exceeds the system limit that can be billed for a single transaction.
14	AllowanceIsUsedUp	Payment	Y	The user has configured a spending limit against their customer account which has now been reached.
15	SellerForbidsPPI	Payment	N	The user has selected the "payment by invoice" method. You have chosen not to allow customers using this payment method to access your offer. The payment should not be reattempted unless the customer is advised to update their ClickandBuy account.
17	URLIsInTestMode	Configuration	N	The Easy Collect ID referenced is currently in Test mode. Please add your test customer to the test mode user group before resubmitting the call.
18	CustomerNotFound	Customer	N	The customer reference number that you have used for invoicing, crediting or for a status enquiry does not exist.
21	ExternalBDRID-NotUNique	Configuration	Y	The externalBDRID must be a unique value for each submitted transaction.
22	SellerMismatch	Configuration	N	An error has occurred in a cancellation or status enquiry: The transaction referred to is not associated to the submitted sellerID. Please verify the data before retrying the call.
23	AuthorisationNotFound	Payment	N	The customer to be invoiced does not have an active Easy Collect authorisation. Prompt the customer to authorise before retrying the payment.
24	DailyAmountExceeded	Configuration	N	The amount entered exceeds the limit that users may be billed through the Easy Collect process. Contact ClickandBuy to ensure an appropriate limit is set against your account.
25	FalseCurrency	Configuration	N	The value for currency communicated is invalid, please use a value listed in the appendix of this document.
26	UserSurfForFree	Configuration	N	The customer account is a member of your free user group configured in your Account Administration. The customer must be removed from the group before payment can be processed.
27	AdultContentCheck-Failed	Payment	N	The customer has activated a block against adult content in their account settings. They must be advised to remove the setting before the payment is resubmitted.
28	DataCheckFailed	Configuration	N	The data submitted does not correspond to the valid syntax. Please proof your submission before retrying.
29	UrlIsNotEasyCollectID	Configuration	N	The value for easyCollectID is not a valid Easy Collect ID. When billing or issuing credits using the Easy Collect process a valid Easy Collect ID must be entered.
30	ZeroBDRIDNotAllowed	Configuration	N	Transactions of price 0.00 are not supported.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
31	OperationNotSup-ported	Configuration	N	Returned when trying to cancel a credit BDRID/externaBDRID. This is not supported.
32	BDRIDNotFound	Payment	N	In your status/cancellation enquiry, you have referenced a BRDID that does not exist.
33	BDRAlreadyCommitted	Payment	N	The attempted transaction has already been completed.
34	InvalidParameter	Configuration	N	The data in you communication is invalid; please proof your submission before retrying.
35	BDRExternalBDRID-Mismatch	Configuration	N	You have entered both the BDR ID and your own external BDR ID for the enquiry. The BDR ID does not correspond to the BDR ID entered.
36	RemoteBDRInPro-gress	ClickandBuy	Y	The status of the transaction completed while roaming is not yet available. Please try again in a few minutes.
37	CreditNotAllowed-ForPrepaid	---	---	Exception code no longer in use.
38	BDR_ECommerce-Already-Cancelled	---	---	Exception code no longer in use.
39	BDRAlreadyCancelled	Configuration	N	The submitted transaction ID is already cancelled.
40	CancelTimeout	ClickandBuy	N	The transaction is older than 1 year and therefore can no longer be cancelled.
41	BadPassword	Configuration	N	Your value for tmPassword is incorrect. Please proof the value or rest it before reattempting the call.
42	JobIDNotFound	Configuration	N	The JobID that you have referenced does not exist.
43	ExtJobIDNotFound	Configuration	N	The ExtJobID that you have referenced does not exist.
44	ExtJobIDNotUnique	Configuration	N	The ExtJobID must be a unique value for each submitted Job.
45	CancelAmountTooHigh	Configuration	N	The amount submitted for cancellation exceeds the value of the original transaction.
46	ActionIDNotFound	Configuration	N	The ActionID that you have referenced does not exist.
47	InterfaceError	ClickandBuy	Y	The Transaction Manager is not currently available; please try the call again after a few minutes.
48	DifferentCurrency	Configuration	N	The currency submitted for cancellation differs from the value of the original transaction.
49	IPNotAllowed	ClickandBuy	N	The IP address from which the request was transmitted is not authorised. Please contact your account manager.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
50	InterfaceAccess-NotGranted	Configuration	N	Enure the Transaction manager Interface is activated for your account, your sellerID/wsdl combination is correct and that a value for tmPassword has been set.
51	TransactionNotFound	Configuration	N	The BDRID that you have referenced does not exist.
52	ZipCodeDoesNotMatch	Customer	N	The ZIP code of the user, who is already registered in the system and for whom you wish to grant an Easy Collect Authorisation, does not match to the submitted ZIP code.
53	AuthorisationAlready-Exists	Customer	N	You attempted to authorise a ClickandBuy customer who already holds an active authorisation for your service.
60	AddressDataIncorrect	Customer	N	The address data submitted is invalid, please verify the data before retrying.
61	PaymentDataIncorrect	Customer	N	The payment data submitted is invalid, please verify the data before retrying.
62	RegisteredAdditional-AuthentificationRe-quired	Customer	N	The ClickandBuy Fraud Server has evaluated the submitted data as doubtable. The customer account created has been blocked.
66	LinkPriceTooHigh	Configuration	N	The amount entered exceeds the system limit that can be billed for a single transaction.
67	MaxPurchase-AmountExceeded	Configuration	N	The amount entered exceeds the system limit that can be billed for a single transaction.
68	PurchaseExceeds-UserLimit	Configuration	N	The amount entered exceeds the system limit that can be billed for a single transaction.
70	PaymentMethod-NotAllowed	Configuration	N	The customer's payment type is not allowed.
72	NoExchangeRate-Found	ClickandBuy	Y	Because of a technical error, there is no exchange rate available for the currency entered at the moment. For this reason, the transaction could not be executed. Please try again later.
74	RegistrationType-NotAllowed	Configuration	N	The registration type submitted is invalid; please verify the data before retrying.
75	SellerNotFound	Configuration	N	Please proof your value for sellerID before retrying.
77	FraudServerReject-Transaction	ClickandBuy	N	Because of the steps we have taken to prevent misuse, the transaction has been rejected by the ClickandBuy Fraud Server.
78	UserNotVerifiedFor-Gambling	Customer	N	The customer is required to undergo ClickandBuy account verification.
80	CreditCallNotAllowed	---	---	Exception code no longer in use.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
82	UserNameNotAvai-labale	Customer	N	The chosen username is not available, please submit an alternate value when retrying.
83	EmailExistsAsUser-name	Customer	N	The submitted email address already exists in the ClickandBuy system, please submit an alternate value when retrying.
84	SellerIsNotSlave	Configuration	N	Please proof your value for slaveMerchantID is valid before retrying.
85	LinkDataIncorrect	Configuration	N	Verify the name, description, url and category submitted.
86	LinkAlreadyExists	Configuration	N	There is already an existing link for the merchant.
90	ReservationNot-Allowed	---	---	Exception code no longer in use.
91	CallNotAllowed	Configuration	N	The submitted call is not allowed.
92	MasterSlaveMiss-match	Configuration	N	The slaveMerchantID submitted is not registered to your Master sellerID.
93	SellerIsNotMaster	Configuration	N	The sellerID submitted is not registered as a Master sellerID.
94	PaymentChannelNot-Suited-ForGambling	Customer	N	The customer to be invoiced does not have a suitable payment method. Prompt the customer to update their ClickandBuy account before retrying the payment.
95	PaymentChannelNot-Suited-ForNowpaid	Payment	N	The customer to be invoiced does not have a suitable payment method. Prompt the customer to fund their ClickandBuy account before retrying the payment.
96	NotEnoughFunding-ForNowpaid	Payment	N	The customer to be invoiced does not have a sufficient account balance. Prompt the customer to fund their ClickandBuy account before retrying the payment.
97	PostPaidSpen-dingLimitReached	Customer	N	The customer to be invoiced does not have a sufficient spending limit. Prompt the customer to update their ClickandBuy account before retrying the payment.
98	UserIsLockedFor-Surfing	Customer	Y	The user is blocked and is therefore unable to make a purchase. This may have occurred for various reasons such as an invalid email address, expired credit card, etc.
99	InternalError	ClickandBuy	Y	The Transaction Manager is not currently available; please try the call again after a few minutes.
100	NoUseablePayment-ChannelFound	Payment	Y	You are unable to debit the customer's ClickandBuy account at this time. This may be due to expired credit card, account verification required etc. Prompt the customer to update their ClickandBuy account before retrying the payment.
101	ResultListEmpty	Configuration	N	There are no results for the status call matching your query.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
103	DetailRecordHas-WrongState	ClickandBuy	Y	The BDR is in a state that does not allow cancellation. Please try again after some minutes.
104	ForPSPNotAllowed	Payment	N	This action is not allowed with this customer because the customer paid one time and did not complete a full account registration at ClickandBuy.
105	CreditLinksFor-PSPNotAllowed	Payment	N	This action is not allowed with this customer because the customer paid one time and did not complete a full account registration at ClickandBuy.
117	UserHasNoAddress	Customer	N	User has no address data for billing.
118	ReservationAl-readyInProgress	Payment	Y	This customer can't be debited at the moment, because another reservation is still in progress. Please try again later.
119	TransactionLimit-Reached	Payment	N	The purchase cannot be processed because the customer has reached the maximum allowed spending limit. Please direct the customer to upgrade their account status before retrying the transaction.
120	AggregateLimit-Reached	Payment	N	The purchase cannot be processed because the customer has reached the maximum allowed spending limit. Please direct the customer to upgrade their account status before retrying the transaction.
121	MaxAccount-BalanceReached	Customer	N	The customer cannot be credited as they have reached the maximum account balance available. Please direct the customer to upgrade their account status before retrying the transaction.
122	CreditNotAllowed	Customer	N	The user you wish to grant a credit is currently not allowed to receive credits.
123	NoReserveCapture-Transaction	ECommerce	N	The referenced BDRID is not a reservation.
124	ProblemWithCus-tomerAccount	ECommerce	N	There is a problem when capturing the reservation from the customer (e.g. User account closed, Fraud suspected). The reservation will be canceled by the ClickandBuy system in such a case.
125	ReservationAlready-CancelledByMerchant	ECommerce	N	The requested transaction is a reserve / capture transaction but it has already been cancelled by the merchant.
126	ReservationAlready-CancelledBySystem	ECommerce	N	The requested transaction is a reserve / capture transaction but it has already been cancelled by the ClickandBuy System.
127	ReservationAlready-CancelledByAgent	ECommerce	N	The requested transaction is a reserve / capture transaction but it has already been cancelled by a ClickandBuy representative.
128	ReservationAlready-Captured	ECommerce	N	The requested reserve/capture transaction has already been captured.

ID	ERROR CODE	ERROR TYPE	RE-TRY	DESCRIPTION
129	ReserveCaptureNot-Enabled	ECommerce	N	The reserve/capture functionality is not enabled for your merchant account.
140	SubscriptionNotFound	Configuration	N	Occurs if no subscription exists for the submitted subscriptionID.
141	SubscriptionAlready-Cancelled	Configuration	N	Occurs if the requested subscription is already cancelled.
144	TimeoutWhenCap-turing	ECommerce	Y	The request for capture can't be processed at this time. The request should be repeated some minutes later.
145	ReservationAlready-Expired	ECommerce	N	The request for capture can't be processed as the reservation is older than 30 days and has expired.
146	CSCRequired	Payment	N	A CSC (aka CVV2, CVN) is required for this payment, but was not provided.
147	NotEnoughPayout-Credit	Payment	Y	Your merchant account needs a positive balance before you are able to initiate a credit (via Email). If this problem persists please contact your Sales contact at ClickandBuy.
150	ConsumerNationNot-Allowed	Configuration	N	Consumer's nation is not allowed to do the purchase according to merchant restrictions
151	ConsumerIPNot-Allowed	Configuration	N	Consumer's IP is not allowed to do the purchase according to merchant restrictions
152	ConsumerStateNot-Allowed	Configuration	N	Consumer's account state is not allowed to do the purchase according to merchant restrictions
153	ConsumerReached-Limit	Configuration	N	Consumer reached purchase limit according to merchant restrictions
154	PaymentChannelNot-SuitedFor-Merchant	Configuration	N	The consumer to be invoiced does not have a suitable payment method according to merchant restrictions. Prompt the consumer to register a suitable payment method.
9999	[General System Error]	ClickandBuy	N	The transaction manager is not currently available. Please try again after some minutes.

Table 4-29: Documented Errors

4.4. PROHIBITED PARAMETER NAMES

You may not use the following parameter names. The use of these parameter names can cause problems in the ClickandBuy system, as these parameters are used by the ClickandBuy system itself. The parameter names are valid both as GET and as POST parameters.

PROHIBITED PARAMETER NAMES

Bank	login_step	cb_billing_LastName
BLZ	MiddleName	cb_billing_Street
cb_content_name_utf	MultipleTradeAllowed	cb_billing_Street2
cb_currency	Nation	cb_billing_HouseNumber
City	password	cb_billing_State
company	Phone	cb_billing_ZIP
CreditCard	prepaid	cb_billing_Nation
CredCardNo	price	cb_content_info_utf
CreditCardValid	querykey	cb_billing_LastName
DateOfBirth	setlogincookie	cb_shipping_Street
Email	State	cb_shipping_Street2
externalBDRID	Street	cb_shipping_HouseNumber
Fax	Street2	cb_shipping_State
FirstName	subscriptionid	cb_shipping_ZIP
gender	usertref	cb_shipping_Nation
Handynr	weiter.x	cb_content_address_utf
ID	weiter.y	cb_billing_FirstName
Konto	x	cb_billing_MiddleName
lang	y	cb_shipping_FirstName
LastName	ZIP	cb_shipping_MiddleName
logincookie	HouseNumber	

Table 4-30: Overview of reserved parameter names

4.5. SUPPORTED NATION CODES

AF	Afghanistan
AL	Albania
DZ	Algeria
AS	American Samoa
AD	Andorra
AO	Angola
AI	Anguilla
AQ	Antarctica
AG	Antigua and Barbuda
AR	Argentina
AM	Armenia
AW	Aruba
AU	Australia
AZ	Azerbaijan
BS	Bahamas
BH	Bahrain
BD	Bangladesh
BB	Barbados
BY	Belarus
BE	Belgium
BZ	Belize
BJ	Benin
BM	Bermuda
BT	Bhutan
BO	Bolivia
BA	Bosnia and Herzegovina
BW	Botswana
BV	Bouvet Island
BR	Brazil
IO	British Indian Ocean Territory
BN	Brunei Darussalam
BG	Bulgaria
BF	Burkina Faso
BI	Burundi
KH	Cambodia
CM	Cameroon
CA	Canada
CV	Cape Verde
KY	Cayman Islands
CF	Central African Republic
TD	Chad
CL	Chile
CN	China
CX	Christmas Island
CC	Cocos (Keeling) Islands
CO	Colombia
KM	Comoros
CG	Congo
CK	Cook Islands
CR	Costa Rica
CI	Cote D'Ivoire (Ivory Coast)
HR	Croatia (Hrvatska)
CU	Cuba
CY	Cyprus
CZ	Czech Republic
CS	Czechoslovakia (former)
DK	Denmark
DE	Deutschland
DJ	Djibouti
DM	Dominica
DO	Dominican Republic
TP	East Timor
EC	Ecuador
EG	Egypt
SV	El Salvador
GQ	Equatorial Guinea
ER	Eritrea
EE	Estonia
ET	Ethiopia
FK	Falkland Islands (Malvinas)
FO	Faroe Islands
FJ	Fiji
FI	Finland
FR	France
GF	French Guiana
PF	French Polynesia
TF	French Southern Territories
GA	Gabon

GM	Gambia
GE	Georgia
DE	Germany
GH	Ghana
GI	Gibraltar
UK	Great Britain
GR	Greece
GL	Greenland
GD	Grenada
GP	Guadeloupe
GU	Guam
GT	Guatemala
GN	Guinea
GW	Guinea-Bissau
GY	Guyana
HT	Haiti
HM	Heard and McDonald Islands
HN	Honduras
HK	Hong Kong
HU	Hungary
IS	Iceland
IN	India
ID	Indonesia
IR	Iran
IQ	Iraq
IE	Ireland
IL	Israel
IT	Italy
JM	Jamaica
JP	Japan
JO	Jordan
KZ	Kazakhstan
KE	Kenya
KI	Kiribati
KP	Korea (North)
KR	Korea (South)
KW	Kuwait
KG	Kyrgyzstan
LA	Laos
LV	Latvia
LB	Lebanon
LS	Lesotho
LR	Liberia
LY	Libya
LI	Liechtenstein
LT	Lithuania
LU	Luxembourg
MO	Macau
MK	Macedonia
MG	Madagascar
MW	Malawi
MY	Malaysia
MV	Maldives
ML	Mali
MT	Malta
MH	Marshall Islands
MQ	Martinique
MR	Mauritania
MU	Mauritius
YT	Mayotte
MX	Mexico
FM	Micronesia
MD	Moldova
MC	Monaco
MN	Mongolia
ME	Montenegro
MS	Montserrat
MA	Morocco
MZ	Mozambique
MM	Myanmar
NA	Namibia
NR	Nauru
NP	Nepal
NL	Nederland
AN	Netherlands Antilles
NT	Neutral Zone
NC	New Caledonia
NZ	New Zealand (Aotearoa)
NI	Nicaragua
NE	Niger
NG	Nigeria
NU	Niue
NF	Norfolk Island
MP	Northern Mariana Islands

NO	Norway
OM	Oman
AT	Österreich
PK	Pakistan
PW	Palau
PA	Panama
PG	Papua New Guinea
PY	Paraguay
PE	Peru
PH	Philippines
PN	Pitcairn
PL	Poland
PT	Portugal
PR	Puerto Rico
QA	Qatar
RE	Reunion
RO	Romania
RU	Russian Federation
RW	Rwanda
GS	S. Georgia and S. Sandwich Isls.
KN	Saint Kitts and Nevis
LC	Saint Lucia
VC	Saint Vincent and the Grenadines
WS	Samoa
SM	San Marino
ST	Sao Tome and Principe
SA	Saudi Arabia
CH	Schweiz
SN	Senegal
RS	Serbia
SC	Seychelles
SL	Sierra Leone
SG	Singapore
SK	Slovak Republic
SI	Slovenia
Sb	Solomon Islands
SO	Somalia
ZA	South Africa
ES	Spain
LK	Sri Lanka
SH	St. Helena
PM	St. Pierre and Miquelon
SD	Sudan
SR	Suriname
SJ	Svalbard and Jan Mayen Islands
SZ	Swaziland
SE	Sweden
SY	Syria
TW	Taiwan
TJ	Tajikistan
TZ	Tanzania
TH	Thailand
TG	Togo
TK	Tokelau
TO	Tonga
TT	Trinidad and Tobago
TN	Tunisia
TR	Turkey
TM	Turkmenistan
TC	Turks and Caicos Islands
TV	Tuvalu
UM	US Minor Outlying Islands
SU	USSR (former)
UG	Uganda
UA	Ukraine
AE	United Arab Emirates
US	United States
UY	Uruguay
UZ	Uzbekistan
VU	Vanuatu
VA	Vatican City State (Holy See)
VE	Venezuela
VN	Viet Nam
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
WF	Wallis and Futuna Islands
EH	Western Sahara
YE	Yemen
YU	Yugoslavia
ZR	Zaire
ZM	Zambia
ZW	Zimbabwe

Table 4-31: Supported Nation Codes

4.6. SUPPORTED CURRENCY CODES

AED	UAE Dirham
ARS	Argentine Peso
AUD	Australian Dollar
BGN	Bulgarian Lev
BHD	Bahrani Dinar
BOB	Bolivian Boliviano
BRL	Brazilian Real
BYR	Belarus Rouble
CAD	Canadian Dollar
CDF	Congo Franc
CHF	Swiss Franc
CLP	Chilean Peso
CNY	Chinese Yuan
COP	Colombian Peso
CRC	Costa Rica Colon
CYP	Cyprus Pound
CZK	Czech Koruna
DKK	Danish Krone
DOP	Dominican Peso
DZD	Algerian Dinar
EEK	Estonian Kroon
EGP	Egypt Pound
ETB	Ethiopian Birr
EUR	Euro
FJD	Fiji Dollar
GBP	British Pound
GEL	Georgian Lari
GHC	Ghanian Cedi
GIP	Gibraltar Pound
GTQ	Guatemala Quetzal
HKD	Hongkong Dollar
HNL	Honduras Lempira
HRK	Croatian Kuna
HTG	Haiti Gourde
HUF	Hungarian Forint
IDR	Indonesia Rupiah
ILS	Israel Shekel
INR	Indian Rupee
IQD	Iraqi Dinar
IRR	Iran Rial
ISK	Iceland Krona
JMD	Jamaican Dollar
JOD	Jordan Dinar
JPY	Japanese Yen
KES	Kenya Shilling
KGS	US$/Kyrgyzstan Som
KHR	Cambodia Riel
KRW	Korean Won
KWD	Kuwaiti Dinar
KYD	Cayman Is. Dollar
KZT	Kazakhstan Tenge
LAK	Lao Kip
LBP	Lebanon Pound
LKR	Sri Lanka Rupee
LRD	Liberian Dollar
LSL	Lesotho Loti
LTL	Lithuania Litas
LVL	Latvian Lats
LYD	Libyan Dollar
MAD	Moroccan Dirham
MDL	Molodovan Leu
MGA	Malagasy Ariary
MKD	Macedonia Denar
MNT	Mongolia Tugrik
MOP	Macau Pataca
MRO	Mauritania Ouguiya
MTL	Maltese Lira
MUR	Mauritius Rupee
MVR	Maldives Rufiyaa
MWK	Malawi Kwacha
MXN	Mexican Nuevo Peso
MYR	Malaysia Ringgit
MZM	Mozambique Metical
NAD	Namibian Dollar
NGN	Nigerian Naira
NIO	Nicaragua Cordoba
NOK	Norwegian Krone
NPR	Nepalese Rupee

NZD	New Zealand Dollar
OMR	Rial Omani
PEN	Peru Nuevo Sol
PGK	Papua New Guinea
PHP	Philippine Peso
PKR	Pakistan Rupee
PLN	Polish Zloty
PYG	Paraguay Guarani
QAR	Qatari Rial
RON	Romanian Leu
RUB	Russia Rouble
SAR	Saudi Riyal
SBD	Solomon Is. Dollar
SCR	SC Rupee
SDD	Sudanese Dinar
SEK	Swedish Krona
SGD	Singapore Dollar
SHP	St Helena Pound
SKK	Slovak Koruna
SRD	Suriname Dollar
STD	Sao Tome Dobra
SVC	El Salvador Colon
SYP	Syrian Pound
SZL	Swaziland Lilageni
THB	Thai Baht
TND	Tunisian Dinar
TOP	Tonga Pa'anga
TRY	Turkish Lira
TTD	Trin Tob Dollar
TWD	Taiwan Dollar
TZS	Tanzania Shilling
UAH	Ukraine Hryvnia
UGX	Uganda Shilling
USD	US Dollar
UYU	Uruguay New Peso
UZS	Uzbekistan Sum
VEB	Venezuela Bolivar
VND	Vietnam Dong
VUV	Vanuatu Vatu
WST	Samoa Tala
XAF	CFA Franc
XCD	E Carribean Dollar
XOF	CFA Franc
XPF	Pacific Franc
YER	Yemen Rial
ZAR	South Africa Rand
ZMK	Zambian Kwacha
ZWD	Zimbabwe Dollar

Table 4-32: Supported Currency Codes

5 HELP

For any information about ClickandBuy, additional documentation or questions about this document please visit the merchant portal located at **http://www.clickandbuy.com**

If known, you may also inform your personal contact at ClickandBuy. Alternatively, please contact the ClickandBuy Merchant Support:

Email: **merchant-support@clickandbuy.com**

6 IMPRINT

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